User Guide

Email Report Server/400

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1 Overview

1.1 About RJS Software Systems, Inc.

RJS Software Systems is a privately-held software and hardware company dedicated to providing high-quality AS/400 - iSeries, Client/Server and web-based products and customer services. Customer Service is central to the company's objective. Read more about us on our web site.

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Trademarks
Email Report Server/400 ™ is a trademark of RJS Software Systems. Brand names and product names are trademarks or registered trademarks of their respective companies.

1.2 Contacting RJS Software Systems, Inc.

For technical support, please review the following information before contacting RJS Software Systems.

For Technical Support with Email Report Server/400
Because of the complexity of dealing with the various AS/400 connectivity environments, please gather and organize as much information as possible on the problem prior to contacting RJS Software Systems for support.

If you have a question about an Email Report Server/400 operation, first browse through the Online Help to try to find your answer prior to calling RJS Software Systems.

Contact Information
Telephone support is available on normal business days from 8:00 am to 5:00 pm central time.
(952) 898-3038 Voice
(952) 898-1781 Fax

Support is available via Email at support@rjssoftware.com.

You may also find the answer to your question on our web site: www.rjssoftware.com.

1.3 Introduction to Email Report Server/400

The Email Report Server/400 software is a Native AS/400 application used to automatically monitor AS/400 output queues and distribute reports via Email. The report server can automatically convert reports to ASCII Text, RTF, PDF, HTML or TIF formats before they are mailed. Raw AS/400 spool data can also be emailed for viewing with the Client Access/400 AFP Viewer. Host Print Transform can be utilized to convert reports to PCL formats before they're mailed. Raw PCL files from electronic form packages such as JetForm, EZ Print/400, Optio, Formation NG, etc. can be mailed as well.

With the Email Report Server/400 software, any AS/400 output queue can serve as a report mailbox. To use the software, simply associate an AS/400 output queue with a selected Email

address and start the server. The Email Report Server does the rest.

For more selective usage:

Email Report Server/400 allows email **addresses** to be **embedded within AS/400 reports**, so no email recipient information needs to be entered into the Email Report Server setting tables.

Email Report Server/400 also allows email addresses to be set for a report by using the **OVRPRTF** command to set the **User Defined Data** value when a report is being generated. When using the **User Defined Data** field to set email addresses within AS/400 reports, no email recipient information needs to be entered into the Email Report Server setting tables.

Email recipients for reports in a selected output queue can be selected by using any combination of the following spool file information parameters: **Spool File Name, User ID, User Data, Form Type, Job Name** or **AS/400 program name**.

Report headers can be automatically scanned for a selected criteria string to determine an Email Recipient.

Reports can be manually mailed directly from the AS/400 using the **Work with Email Reports command**. This option is similar to the AS/400 WRKOUTQ command and allows users to visually select and send AS/400 reports via email. An AS/400 CL API command called **MAILSPLF** is available for sending AS/400 reports directly from within a user application program.

The Email Report Server/400 software uses the SMTP Internet mail protocol to send reports directly from the AS/400 using the **AS/400 SMTP Server** or **Domino for AS/400 SMTP Server**. However the **AS/400 SMTP mail server is not required** if another non-AS/400 SMTP Server such as **MS Exchange**, **Lotus Domino**, **Novell Groupwise** or **any other SMTP Server** is running in your network. Reports can also be forwarded directly to an Internet Service Provider's SMTP server for direct Internet sending of AS/400 reports.

Since the **AS/400 SMTP Server is not required**, the AS/400 SMTP mail server does not need to be running unless you are using the AS/400 as your Internet Email Server.

1.4 Licensing Information

Email Report Server/400 is licensed on a per AS/400 system partition basis.

2 Installation

2.1 Introduction to Installation

This section covers the installation of Email Report Server/400 on the AS/400 system that will be running the software.

2.2 AS/400 Prerequisites

Before installing the Email Report Server/400 software, you must make sure that you have the following prerequisites installed and enabled on the AS/400 system.

TCP/IP connectivity must enabled. If TCP/IP is not active, the Email Report Server/400 software will not work.

The AS/400 SMTP Mail Server or Domino for AS/400 SMTP Server are needed only if you are using

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the AS/400 as your SMTP email system.

If sending mail to an external SMTP mail server such as MS Exchange, Novell Groupwise, Lotus Domino, or any other SMTP mail server, the **AS/400 SMTP Server does not need to be running**.

2.3 Email System Prerequisites

You must have a SMTP Mail Server running somewhere in your network or you must have access to an Internet Service Provider SMTP Server in order to send mail with the Email Report Server/400 software.

You will need to know the IP address or TCP/IP host name of your SMTP mail server.

If you're not familiar with SMTP, please contact RJS Software Systems for assistance.

2.4 AS/400 Installation

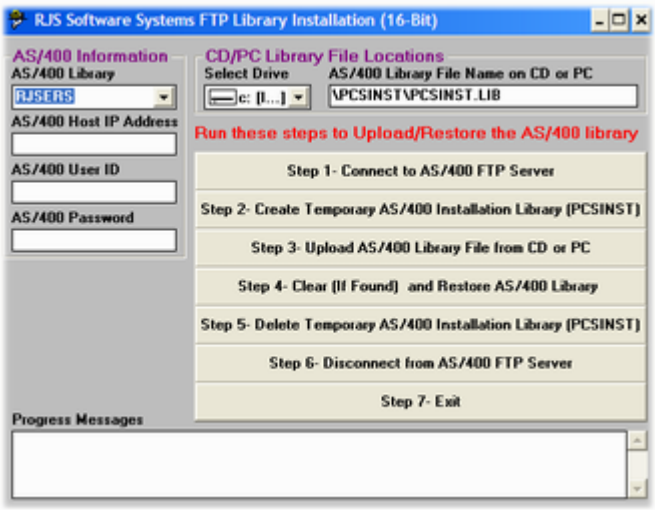
This section includes instructions for restoring the Email Report Server/400 AS/400 library.

AS/400 Installation Using RSTLIB Command
Insert the RJS CD into the AS/400 CD Drive and sign on to the AS/400 with a user ID that has security officer authority.

Run the following AS/400 command to restore the SMTP/400 library:
RSTLIB SAVLIB(RJSERS) DEV(OPT01) OPTFILE('/RJSERS')AS/400

AS/400 Installation Using RJS Software Systems FTP Library Installation
If you're installing the library form our website simply enter in your AS/400 Host IP Address, AS/400 User ID, and AS/400 Password. Then just run through steps 1 through 7.

If you're installing the library from our CD, you will select RJSERS for your AS/400 library. After you select the AS/400 library, the AS/400 Library File Name on CD or PC will automatically fill in as \AS400LIB\RJSERS\PCSINST.LIB.


RJS Software Systems FTP Library Installation (16-Bit)
AS/400 Information
AS/400 Library
RJSERS
AS/400 Host IP Address
AS/400 User ID
AS/400 Password
CD/PC Library File Locations
Select Drive
c: [I...]
AS/400 Library File Name on CD or PC
\PCSINST\PCSINST.LIB
Run these steps to Upload/Restore the AS/400 library
Step 1- Connect to AS/400 FTP Server
Step 2- Create Temporary AS/400 Installation Library (PCSINST)
Step 3- Upload AS/400 Library File from CD or PC
Step 4- Clear (If Found) and Restore AS/400 Library
Step 5- Delete Temporary AS/400 Installation Library (PCSINST)
Step 6- Disconnect from AS/400 FTP Server
Step 7- Exit
Progress Messages

Note: All web download packages contain an automated FTP upload utility.

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2.5 AS/400 User Authorization Code Entry

Sign on to the AS/400 with a user ID that has security officer authority.

Entering Email Report Server/400 Access Code
Add the RJSERS library to the user library list by typing: **ADDLIBLE RJSERS** and pressing Enter.

Type PRDSEC followed by the 50 digit access code provided by RJS onto the AS/400 command line.

If you have questions or problems with entering the access codes, contact RJS Software Systems for assistance.

2.6 Deinstallation of Email Report Server/400

The following sections describe how to remove the Email Report Server/400 software from an AS/400 system.

Removing Email Report Server/400 from an AS/400
To remove Email Report Server/400 from an AS/400, perform the following individual steps.

Make sure the RJSERS library is not being used.

Delete the RJSERS library from the AS/400 by entering the following command:
DLTLIB LIB(RJSERS)

3 Getting Started

3.1 Introduction to Getting Started

The purpose of this section is to describe how to quickly get started using the Email Report Server/400 software to start emailing reports directly from your AS/400 system.

3.2 Installing the Email Report Server/400 Software

If you haven't installed the software yet, go back to the installation section and install the software before continuing. If you're just reading ahead to find out what to do, then please continue.

3.3 Overview of Report Server Process

The concept behind the Email Report Server/400 is that the AS/400 can easily deliver AS/400 reports directly via SMTP without the need to configure or start the AS/400 SMTP Server. While the AS/400 SMTP Server can be used for emailing AS/400 reports it is not required because the Email Report Server can deliver reports via MS Exchange, Novell Groupwise, Lotus Domino or any other SMTP compatible mail server.

Available Methods for Mailing Reports

By utilizing the Output Queue Monitor command ERSMON to monitor for new reports.
By using the Work with Email Reports command WRKMRPT to interactively select a report to mail.
By using the MAILSPLF command from a CL or RPG program to mail a selected report. This method allows any AS/400 application to be email enabled with minimal effort.

Assigning Email Addresses for Selected Output Queue

Email Report Server/400 allows email addresses to be embedded within AS/400 reports, so no

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email recipient information needs to be entered into the Email Report Server setting tables.

Email Report Server/400 also allows email addresses to be set for a report by using the OVRPRTF command to set the User Defined Data value when a report is being generated. When using the User Defined Data field to set email addresses within AS/400 reports, no email recipient information needs to be entered into the Email Report Server setting tables.

Email recipients for reports in a selected output queue can be selected by using any combination of the following spool file information parameters: Spool File Name, User ID, User Data, Form Type, or Job Name.

Report headers can be automatically scanned for a selected criteria string to determine an Email Recipient.

All reports for a single output queue can be mailed to a single email address. This scenario is nice if you want a simple scenario where all reports for a selected user are placed into a single queue and then emailed.

Basic Automation Process Flow Reports are generated on an AS/400 and placed into selected output queue(s) so the Email Report Server/400 process can retrieve the reports.

The Email Report Server Output Queue Monitor job is submitted when reports are ready to be captured. The Output Queue Monitor process can be run once or can be set up to monitor the selected output queue(s) and automatically process the reports on a timed interval.

When a report is processed it automatically gets converted to the selected format such as ASCII Text, RTF, HTML, PDF, PCL or TIF (via Host Print Transform).

After each report is converted it is automatically emailed using the SMTP email protocol. The reports are mailed via the selected email server which can be an AS/400 or any other SMTP server the AS/400 has access to. The AS/400 SMTP Server does not have to be running.

Simplicity and ease-of-use is what makes the Email Report Server/400 such a nice product for emailing reports directly from the AS/400.

3.4 Creating a Host Table Entry for your SMTP Server

Normally you will be able to specify the TCP/IP address for your SMTP mail server when mailing reports, but we recommend creating a Host Table entry for your mail server. This allows your SMTP server to be referred to by its Host Name. We have seen some situations where mailing reports will fail with a –0002 error code if the IP address of the SMTP server is used instead of the Host Name.

Note: if you happen to be using the AS/400 SMTP server, you can leave the default value of LOCALHOST for the SMTP server name wherever required. This means you don't need to create a Host Table entry for LOCALHOST. It's already there.
Sign on to the AS/400 system.

Next type: GO CFGTCP and press Enter. This will take you to the TCP/IP configuration menu.

Take Option 10. (Work with TCP/IP Host Table Entries). The Host Table Entry screen will be displayed.

Type a 1 in the Opt field and type the IP address for your SMTP Server in the Internet Address field. Press Enter to continue.

Type SMTPMAIL or something else for the Host Name. Press Enter to create the Host Table Entry.

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The new Host Name can now be used when mailing reports with the Email Report Server/400 software.

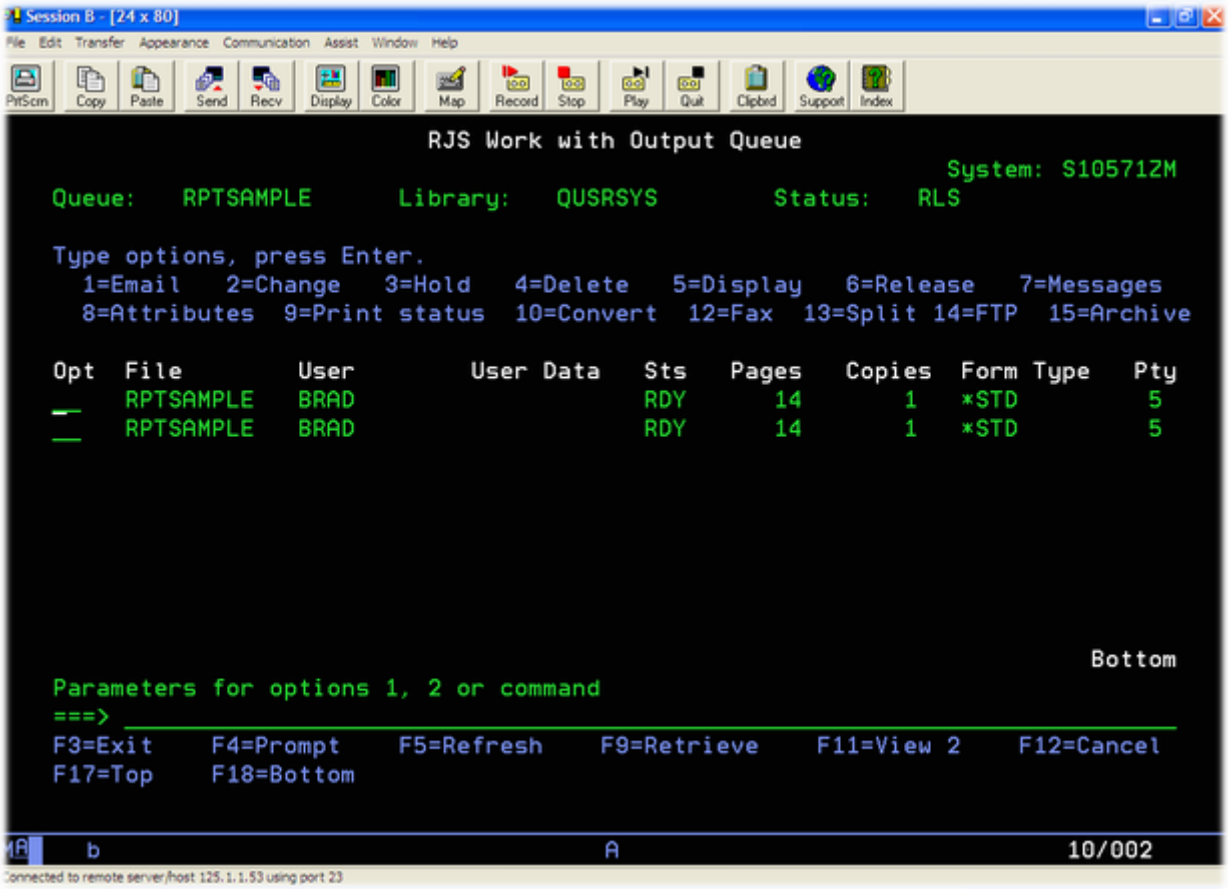
3.5 Manually Emailing Your First Report

Let's begin by manually emailing a report to make sure the Email Report Server works correctly. This will insure the SMTP Email API works correctly before you start setting up the automation processes.

Sign on to the AS/400 system and add the RJSERS library to your library list by using the following AS/400 command: ADDLIBLE RJSERS.

Next type: GO RJSERS and press enter. This will take you to the Email Report Server/400 main menu.

Take Option 10. (Work with Email Reports) and select an output queue that contains a report that you want to send via email. Once an output queue has been entered, the Select Reports to Email screen will be displayed.


Session B - [24 x 80]
File Edit Transfer Appearance Communication Assist Window Help
PrtScrn Copy Paste Send Recv Display Color Map Record Stop Play Quit Clipbrd Support Index
RJS Work with Output Queue
System: S10571ZM
Queue: RPTSAMPLE Library: QUSRSYS Status: RLS
Type options, press Enter.
1=Email 2=Change 3=Hold 4=Delete 5=Display 6=Release 7=Messages
8=Attributes 9=Print status 10=Convert 12=Fax 13=Split 14=FTP 15=Archive
Opt File User User Data Sts Pages Copies Form Type Pty
RPTSAMPLE BRAD RDY 14 1 *STD 5
RPTSAMPLE BRAD RDY 14 1 *STD 5
Bottom
Parameters for options 1, 2 or command
===>
F3=Exit F4=Prompt F5=Refresh F9=Retrieve F11=View 2 F12=Cancel
F17=Top F18=Bottom
b A 10/002
Connected to remote server/host 125.1.1.53 using port 23

RJS Work with Output Queue Screen

Select Reports to Email Place a 1 next to the report you want to mail. Press Enter and the Email Spool File prompt will be displayed.

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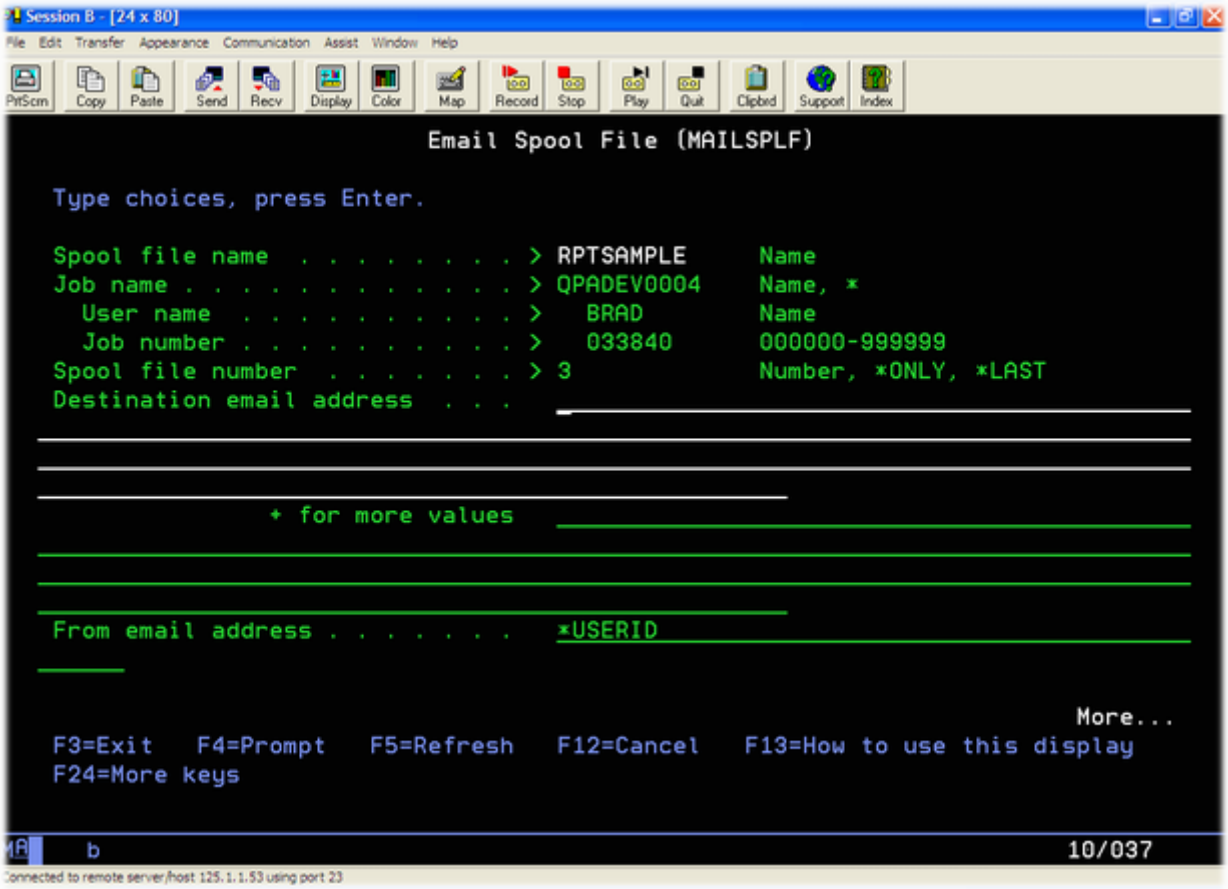
Session B - [24 x 80]
File Edit Transfer Appearance Communication Assist Window Help
PrtScrn Copy Paste Send Recv Display Color Map Record Stop Play Quit Clipbrd Support Index
Email Spool File (MAILSPLF)
Type choices, press Enter.
Spool file name . . . . . > RPTSAMPLE Name
Job name . . . . . > QPADEV0004 Name, *
User name . . . . . > BRAD Name
Job number . . . . . > 033840 000000-999999
Spool file number . . . . . > 3 Number, *ONLY, *LAST
Destination email address . . .
+ for more values
From email address . . . . . *USERID
More...
F3=Exit F4=Prompt F5=Refresh F12=Cancel F13=How to use this display
F24=More keys
MA b 10/037
Connected to remote server/host 125.1.1.53 using port 23

Email Spool File Prompt Screen - Screen 1

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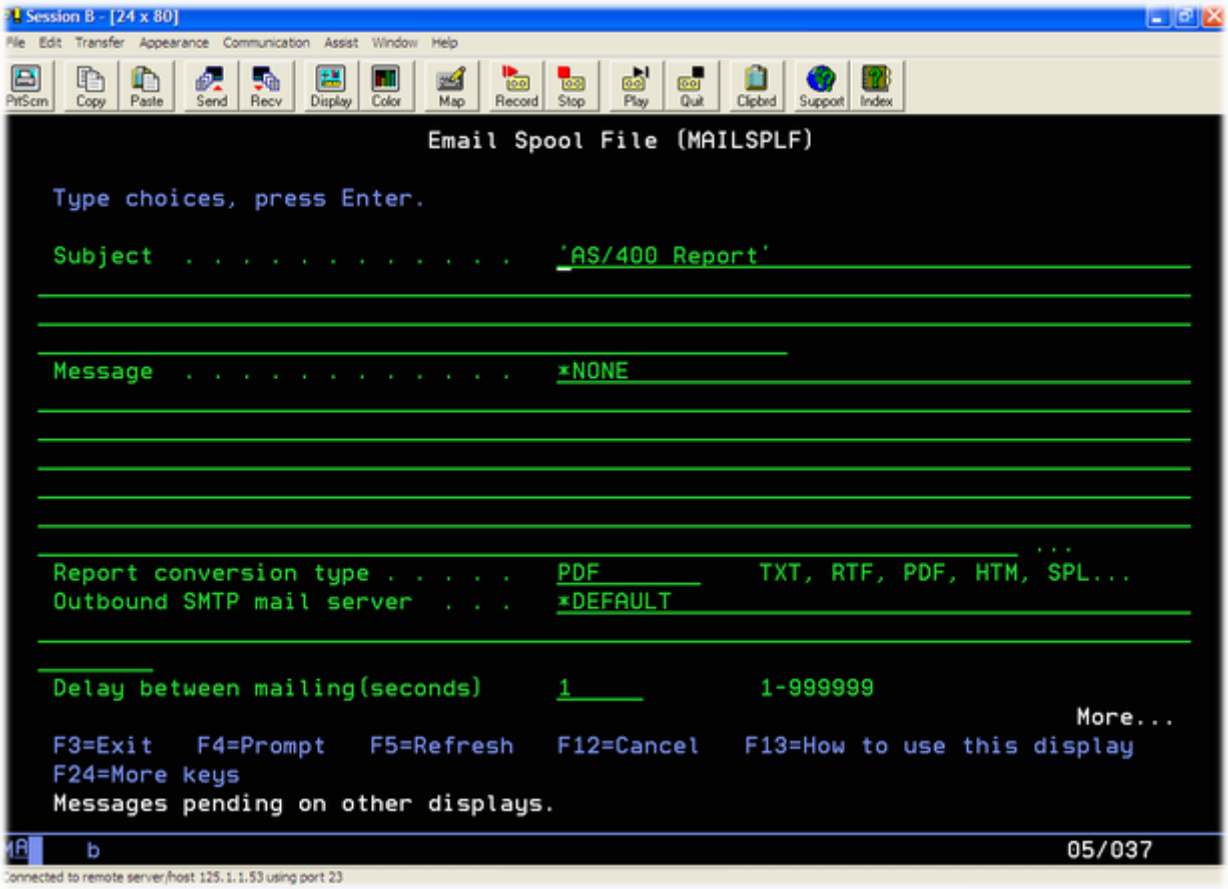
Session B - [24 x 80]
File Edit Transfer Appearance Communication Assist Window Help
PrtScrn Copy Paste Send Recv Display Color Map Record Stop Play Quit Clipbrd Support Index
Email Spool File (MAILSPLF)
Type choices, press Enter.
Subject . . . . . 'AS/400 Report'
Message . . . . . *NONE
Report conversion type . . . . . PDF TXT, RTF, PDF, HTM, SPL...
Outbound SMTP mail server . . . *DEFAULT
Delay between mailing(seconds) 1 1-999999
More...
F3=Exit F4=Prompt F5=Refresh F12=Cancel F13=How to use this display
F24=More keys
Messages pending on other displays.
MA b 05/037
Connected to remote server/host 125.1.1.53 using port 23

Email Spool File Prompt Screen - Screen 2

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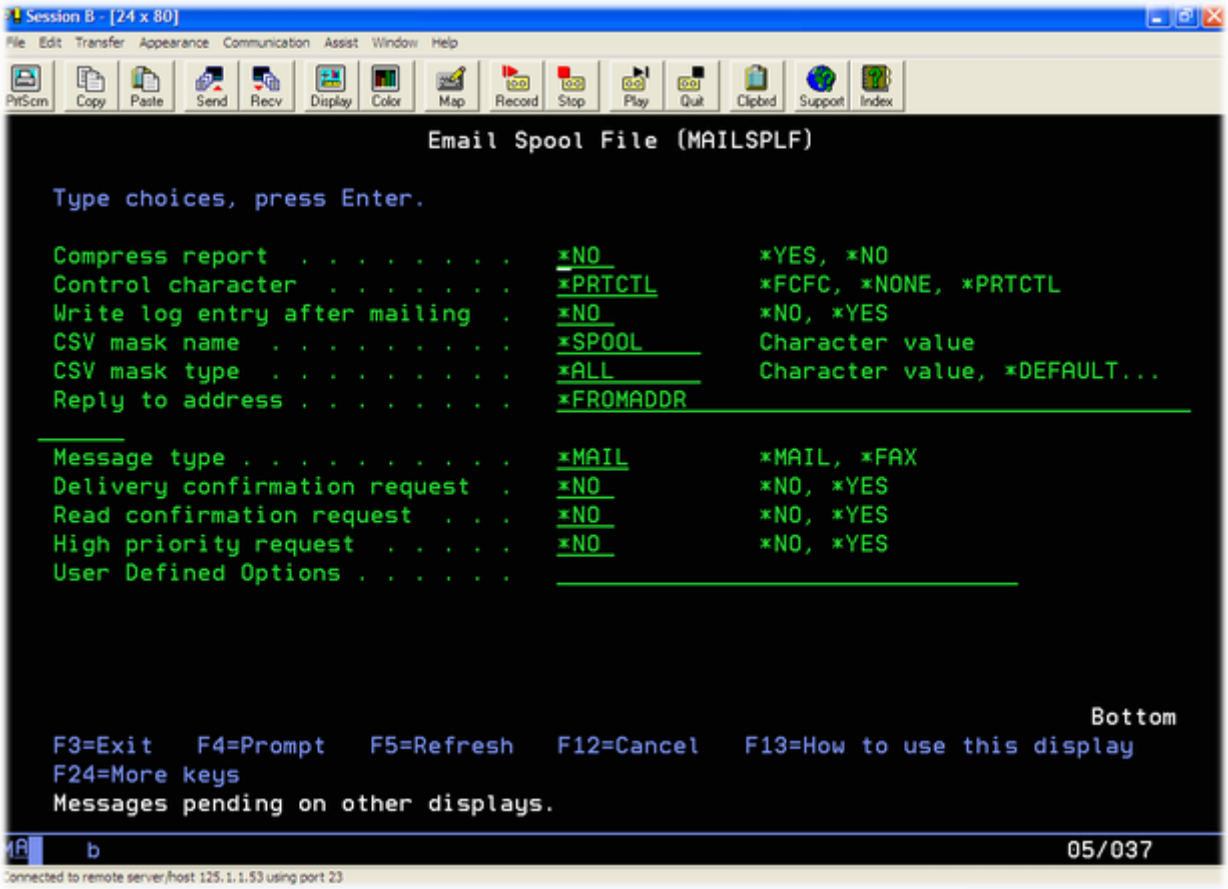
Session B - [24 x 80]
File Edit Transfer Appearance Communication Assist Window Help
PrtScrn Copy Paste Send Recv Display Color Map Record Stop Play Quit Clipbrd Support Index
Email Spool File (MAILSPLF)
Type choices, press Enter.
Compress report . . . . . *NO *YES, *NO
Control character . . . . . *PRTCTL *FCFC, *NONE, *PRTCTL
Write log entry after mailing . *NO *NO, *YES
CSV mask name . . . . . *SPOOL Character value
CSV mask type . . . . . *ALL Character value, *DEFAULT...
Reply to address . . . . . *FROMADDR
Message type . . . . . *MAIL *MAIL, *FAX
Delivery confirmation request . *NO *NO, *YES
Read confirmation request . . . *NO *NO, *YES
High priority request . . . . . *NO *NO, *YES
User Defined Options . . . . . .
Bottom
F3=Exit F4=Prompt F5=Refresh F12=Cancel F13=How to use this display
F24=More keys
Messages pending on other displays.
MA b 05/037
Connected to remote server/host 125.1.1.53 using port 23

Email Spool File Prompt Screen - Screen 3

Enter the following parameters for the email message. The parameters will be explained in more detail in the reference section:

Destination email address:
Enter up to 10 email recipients who should receive the report. The email addresses MUST be entered in Internet format such as: joe@us.ibm.com.

From email address:
Enter a return email address for the person sending the email. Make sure to enter a valid Internet email address, otherwise if the email message doesn't get delivered correctly, you will not receive a notification from your email system. The email addresses MUST be entered in Internet format such as: joe@us.ibm.com.

Subject

Message

Report conversion type:
Enter the desired data type for the AS/400 report you are mailing. To view a list of available conversion types, simply type a ? in the Report Conversion Type field. The data types are listed below:

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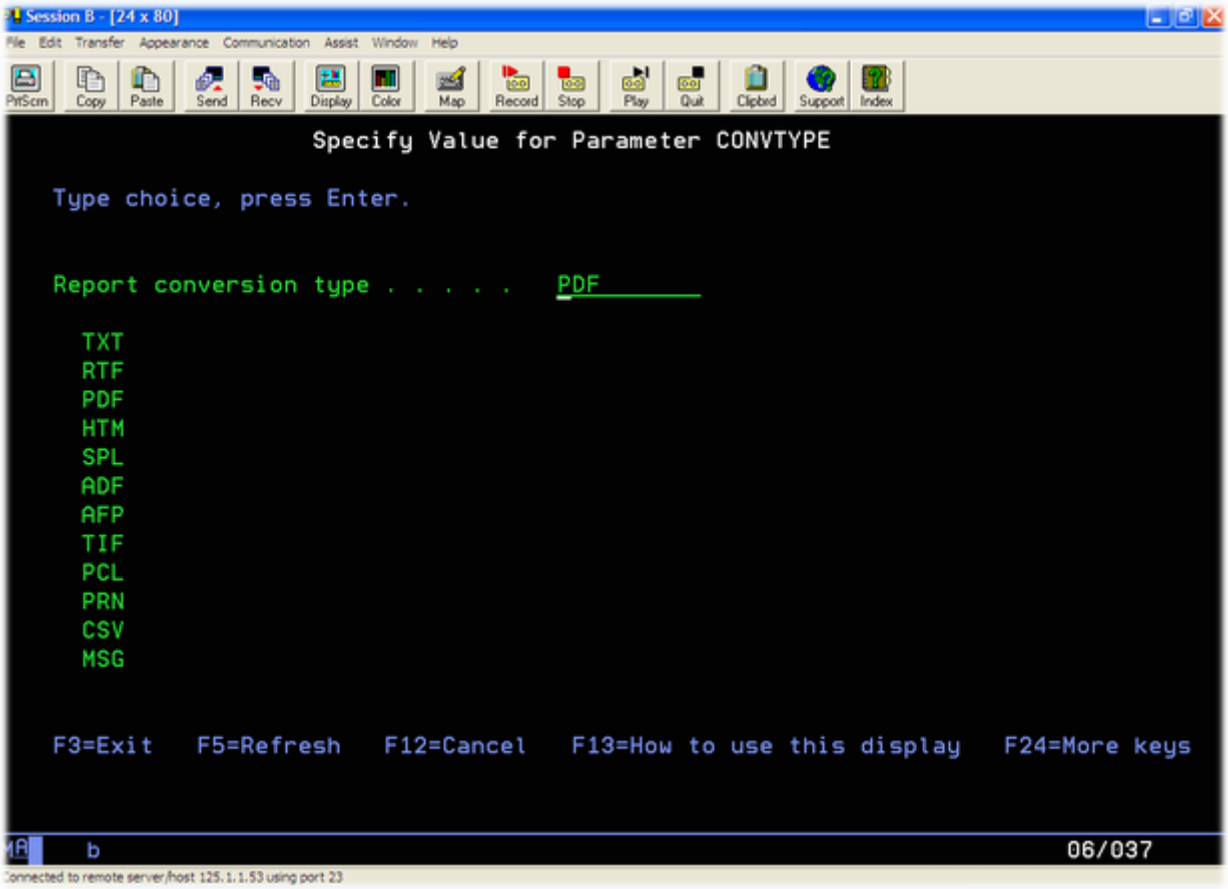

Specify Value for Parameter CONVTYPE

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ADF No longer used.

AFP Raw spool file data is stored in the database attachment. The report data is extracted as is and can be SCS, AFP/IPDS, raw PCL or Postscript created with products such as CreatePrint, EZ Print/400, Formation MG or any other PCL or Postscript based electronic forms software package. SCS or AFP/IPDS reports can be viewed with the Client Access/400 AFP/IPDS viewer. Raw PCL data can be viewed or converted with special converters or can be sent directly to any PCL printer for printing. Contact RJS Software Systems Inc. if you would like to discuss your PCL report viewing and distribution needs.

CSV Report is converted to CSV format with the RJS CSV Report Converter. CSV files can be opened with Excel and other applications that support CSV.

HTM The text report is delivered in HTML Web Browser format.

MSG Report is embedded in the body of the email message. No attachment is sent.

PCL Raw spool file data is stored in the database attachment. The report data is extracted as is and can be SCS, AFP/IPDS, raw PCL or Postscript created with products such as CreatePrint, EZ Print/400, Formation MG or any other PCL or Postscript based electronic forms software package. SCS or AFP/IPDS reports can be viewed with the Client Access/400 AFP/IPDS viewer. Raw PCL data can be viewed or converted with special converters or can be sent directly to any PCL printer for printing. Contact RJS Software Systems Inc. if you would like to discuss your PCL report viewing and distribution needs.

PDF The text report is delivered in Adobe Acrobat PDF format. AFP reports can be sent as PDF if using RJS AFP to PDF Report Converter. PCL reports can be sent as PDF if using RJS PCL to PDF Report Converter. Electronic forms can be sent as PDF if WinSpool/400 Electronic Forms software is used to generate electronic forms with overlays.

PRN The text report is delivered in ASCII Text format with all the line & page breaks intact.

RTF The text report is delivered in MS Word Rich Text format.

SPL The text report is delivered in ASCII Text format with all print control characters intact. The following print control character formats can be used: *FCFC, *PRTCTL or *NONE. This format is usually used if the reports will be viewed with the RJS WinView/400 report viewing software.

TIF Host Print Transform is used to convert AFP/IPDS reports into TIF format. The text or AFPDS report is delivered in Multi-Page TIFF image format. This format can be viewed with the built-in Imaging for Windows software included with Windows 95/98/NT/2000 or any other viewing program that can view Multi-Page TIFF images. This is a perfect way to email AFP/IPDS reports for viewing. AFP/IPDS report layouts may need to be tweaked to work correctly with Host

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Outbound SMTP mail server
Enter the Host Name or IP address for the selected SMTP email server. After typing the email recipient information, press Enter to email the selected report to the selected email recipients.

Note: If you receive a –0002 error in the job log after emailing the report, read the previous section on creating a Host Table entry.

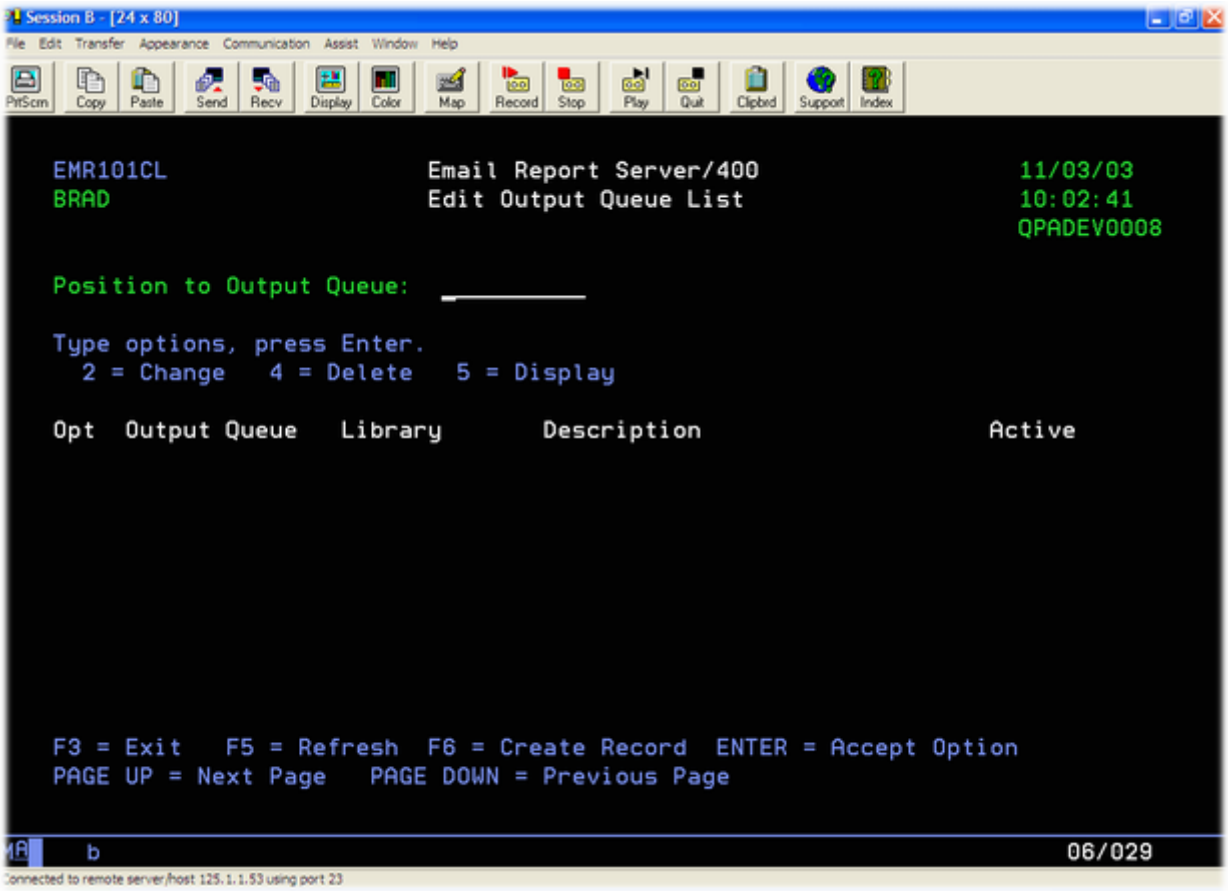
3.6 Setting up an Output Queue for Automatic Emailing

We're going to set up a sample output queue for automatically mailing all reports.

Sign on to the AS/400 system and add the RJSERS library to your library list by using the following AS/400 command: ADDLIBLE RJSERS.

Next type: GO RJSERS and press enter. This will take you to the Email Report Server/400 main menu.

Take Option 3. (Edit Output Queue List) and the Edit Output Queue List screen will be displayed.


Session B - [24 x 80]
File Edit Transfer Appearance Communication Assist Window Help
PrtScrn Copy Paste Send Recv Display Color Map Record Stop Play Quit Clipbrd Support Index
EMR101CL Email Report Server/400 11/03/03
BRAD Edit Output Queue List 10:02:41
QPADEV0008
Position to Output Queue:
Type options, press Enter.
2 = Change 4 = Delete 5 = Display
Opt Output Queue Library Description Active
F3 = Exit F5 = Refresh F6 = Create Record ENTER = Accept Option
PAGE UP = Next Page PAGE DOWN = Previous Page
b
06/029

Edit Output Queue List Main Screen

Press F6 to create a new output queue record.

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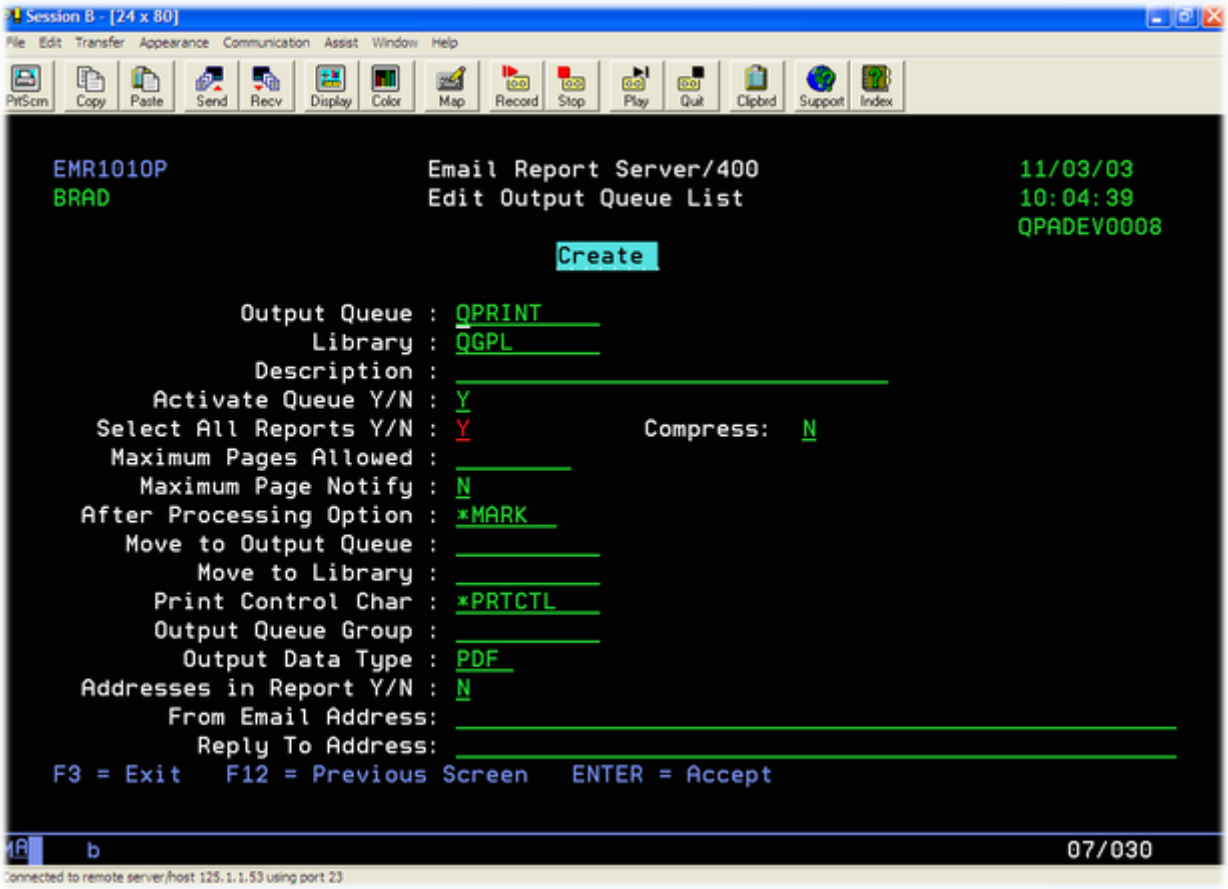
Session B - [24 x 80]
File Edit Transfer Appearance Communication Assist Window Help
PrtScrn Copy Paste Send Recv Display Color Map Record Stop Play Quit Clipbrd Support Index
EMR1010P Email Report Server/400 11/03/03
BRAD Edit Output Queue List 10:04:39
QPADEV0008
Create
Output Queue : QPRINT
Library : QGPL
Description :
Activate Queue Y/N : Y
Select All Reports Y/N : Y Compress: N
Maximum Pages Allowed :
Maximum Page Notify : N
After Processing Option : *MARK
Move to Output Queue :
Move to Library :
Print Control Char : *PRTCTL
Output Queue Group :
Output Data Type : PDF
Addresses in Report Y/N : N
From Email Address:
Reply To Address:
F3 = Exit F12 = Previous Screen ENTER = Accept
MA b 07/030
Connected to remote server/host 125.1.1.53 using port 23

Create Output Queue Entry

Enter the following required parameters. The parameters will be explained in more detail in the reference section:

Output Queue/Library:
Type the selected output queue and library name.

Description:
This is information about the output queue that you can enter and will be displayed when you first take option 3. (Edit Output Queue List) from the RJSERS main menu and the Edit Output Queue List screen will be displayed.

Activate Queue:
Type Y to activate the output queue entry.

After Processing Option:
*NONE - Does nothing with the original report after it has been emailed
*MARK - Puts a *SENT in the user data field of a report after it has been emailed
*MOVE - Moves the report to an output queue of your choice after it's been emailed.
*DELETE - Deletes the original report after it has been emailed

Print Control Characters:
*PRTCTL - (Default) This should normally be used to insure proper report conversion to the HTML, PRN, PDF, RTF and TXT formats.

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*NONE - This option will convert the report to a text format without any Print Control Characters. SPL should be used for the Output Data Type when this option is used.

*FCFC - This option will convert the report to a text format with ANSI Print Control Characters. SPL should be used for the Output Data Type when this option is used. This format is usually used if a report will be sent to a COLD system or to a Microfiche vendor.

Output Data Type:
Type PDF if you want the report converted to Adobe Acrobat format. Type RTF if you want the report converted to MS Word format. You can also use HTM for HTML formatting or TXT for ASCII Text formatting.

Note: The Output Data Type setting at the Output Queue Level is only applicable when embedding email addresses within a report. In the Email Recipient List entry, the report output type can be chosen for each email recipient.

Press Enter to save the new Output Queue entry.

3.7 Setting up an Email Recipient for the Selected Output Queue

We're going to set up an email recipient for the selected output queue.

Sign on to the AS/400 system and add the RJSERS library to your library list by using the following AS/400 command: ADDLIBLE RJSERS.

Next type: GO RJSERS and press enter. This will take you to the Email Report Server/400 main menu.

Take Option 4. (Edit Email Recipients) and the Edit Email Recipient List screen will be displayed.

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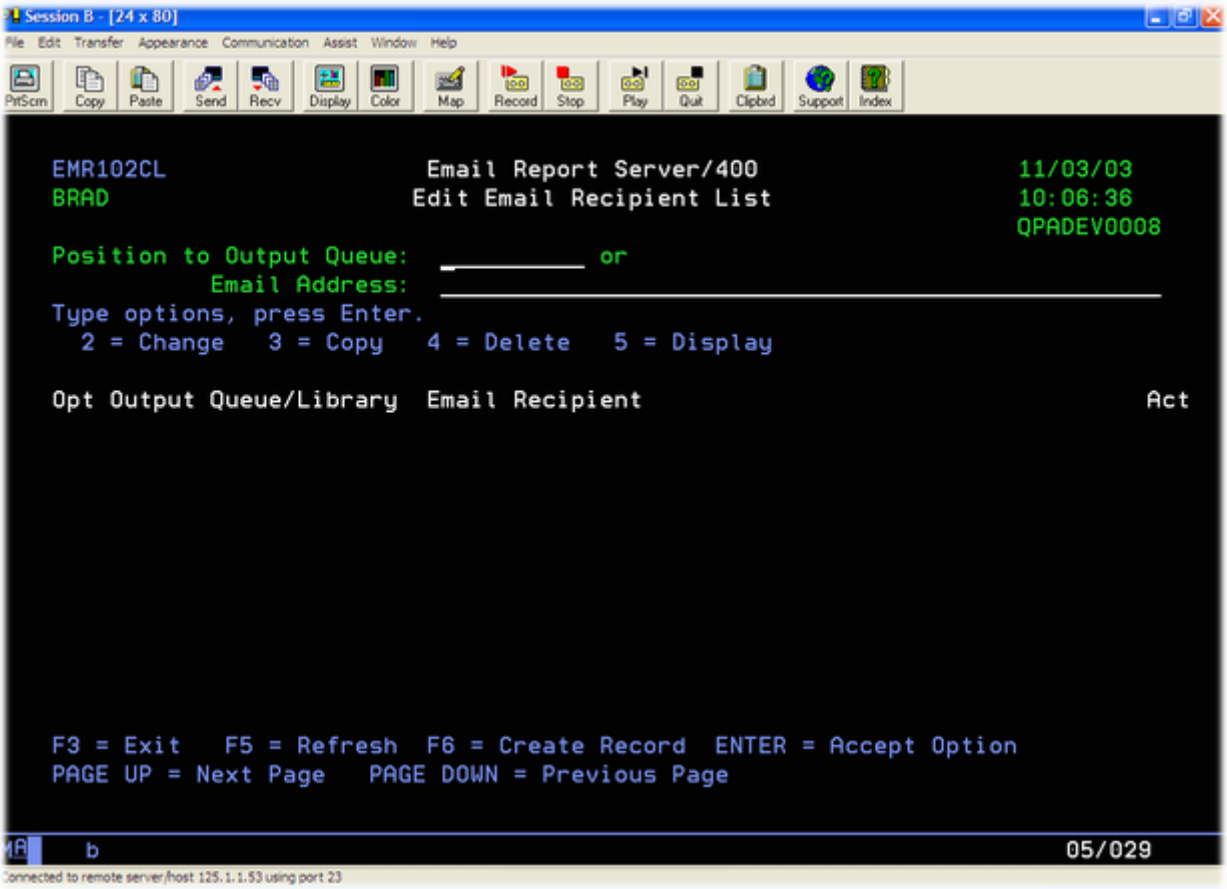
Session B - [24 x 80]
File Edit Transfer Appearance Communication Assist Window Help
PrtScrn Copy Paste Send Recv Display Color Map Record Stop Play Quit Clipbrd Support Index
EMR102CL
BRAD
Email Report Server/400
Edit Email Recipient List
11/03/03
10:06:36
QPADEV0008
Position to Output Queue: _____ or
Email Address: _____
Type options, press Enter.
2 = Change 3 = Copy 4 = Delete 5 = Display
Opt Output Queue/Library Email Recipient Act
F3 = Exit F5 = Refresh F6 = Create Record ENTER = Accept Option
PAGE UP = Next Page PAGE DOWN = Previous Page
MA b 05/029
Connected to remote server/host 125.1.1.53 using port 23

Edit Email Recipient List Main Screen

Press F6 to create a new email recipient record.

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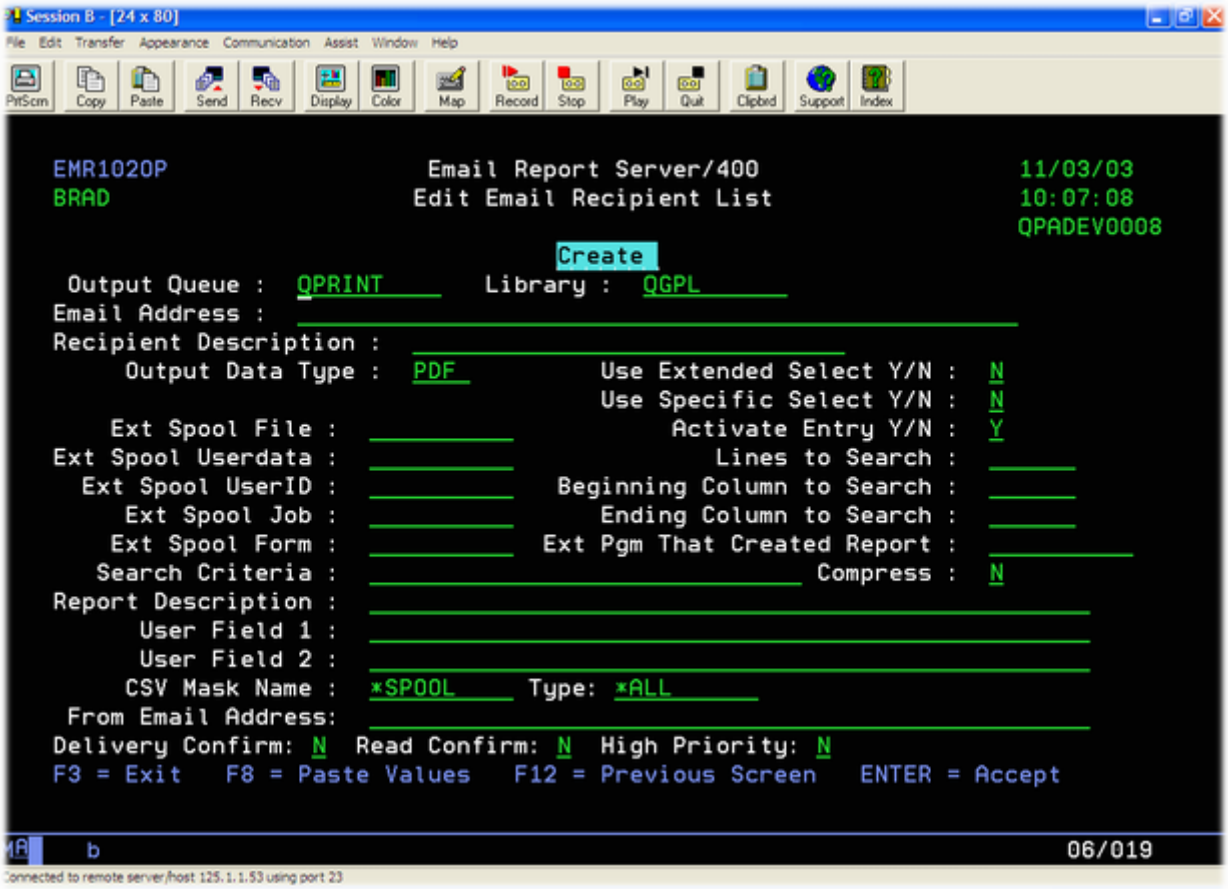
Session B - [24 x 80]
File Edit Transfer Appearance Communication Assist Window Help
PrtScrn Copy Paste Send Recv Display Color Map Record Stop Play Quit Clipbrd Support Index
EMR1020P Email Report Server/400 11/03/03
BRAD Edit Email Recipient List 10:07:08
QPADEV0008
Create
Output Queue : QPRINT Library : QGPL
Email Address :
Recipient Description :
Output Data Type : PDF
Use Extended Select Y/N : N
Use Specific Select Y/N : N
Ext Spool File :
Activate Entry Y/N : Y
Ext Spool Userdata :
Lines to Search :
Ext Spool UserID :
Beginning Column to Search :
Ext Spool Job :
Ending Column to Search :
Ext Spool Form :
Ext Pgm That Created Report :
Search Criteria :
Compress : N
Report Description :
User Field 1 :
User Field 2 :
CSV Mask Name : *SPOOL Type: *ALL
From Email Address:
Delivery Confirm: N Read Confirm: N High Priority: N
F3 = Exit F8 = Paste Values F12 = Previous Screen ENTER = Accept
MA b 06/019
Connected to remote server/host 125.1.1.53 using port 23

Create Email Recipient Screen

Enter the following required email recipient parameters. The parameters will be explained in more detail in the reference section:

Output Queue/Library:
Type the selected output queue and library name for the email recipient.

Email address:
Enter the selected email address. The email addresses MUST be entered in Internet format such as: joe@us.ibm.com.

Output Data Type:
Type PDF if you want the report converted to Adobe Acrobat format. Type RTF if you want the report converted to MS Word format. You can also use HTM for HTML formatting or TXT for ASCII Text formatting.

Use Extended Select:
Type N to deactivate extended report selection.

Activate Entry:
Type Y to activate the email recipient entry.

Press Enter to save the new Email Recipient entry.

Note: This sample assumes all reports will be mailed from the selected output queue to the

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selected email recipient, so do not place a lot of reports in the selected output queue unless you want them all to get mailed.

3.8 Running the Output Queue Monitor

The Output Queue Monitor needs to be run in order to process and mail any reports that are ready to be emailed.

Sign on to the AS/400 system and add the RJSERS library to your library list by using the following AS/400 command: ADDLIBLE RJSERS.

Next type: GO RJSERS and press enter. This will take you to the Email Report Server/400 main menu.

Take Option 6. (Run Email Report Server Output Queue Monitor Interactively) or Option 7 (Submit Email Report Server Output Queue Monitor to Batch) to run the Output Queue Monitor.

Output Queue Monitor Prompt

Enter the following required output queue monitor parameters. The parameters will be explained in more detail in the reference section:

Delay processing or Run Once:
Type *ONCE to run the output queue monitor one time.

Delay between mailing:

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Type 1 in this field to delay for 1 second after mailing each report.

Outbound SMTP mail server:
Enter the Host Name or IP address for the selected SMTP email server.

From email address:
Enter a return email address for the person sending the email. Make sure to enter a valid Internet email address, otherwise if the email message doesn't get delivered correctly, you will not receive a notification from your email system. The email addresses MUST be entered in Internet format such as: joe@us.ibm.com.

Press Enter to run the Output Queue Monitor.

After the Output Queue Monitor completes, use Option 8 (Display Report Server Log Entries) to view the log and determine if the reports were mailed correctly.

3.9 What's Next After Getting Started?

You should now have the basics down for manually and automatically sending reports via email from the AS/400.

The next few sections are a reference for the Email Report Server menu options and each of the AS/400 commands and available parameters.

4 Main Menu

4.1 Introduction to the Main Menu

This section gives an overview of the Email Report Server/400 main menu and the available options.

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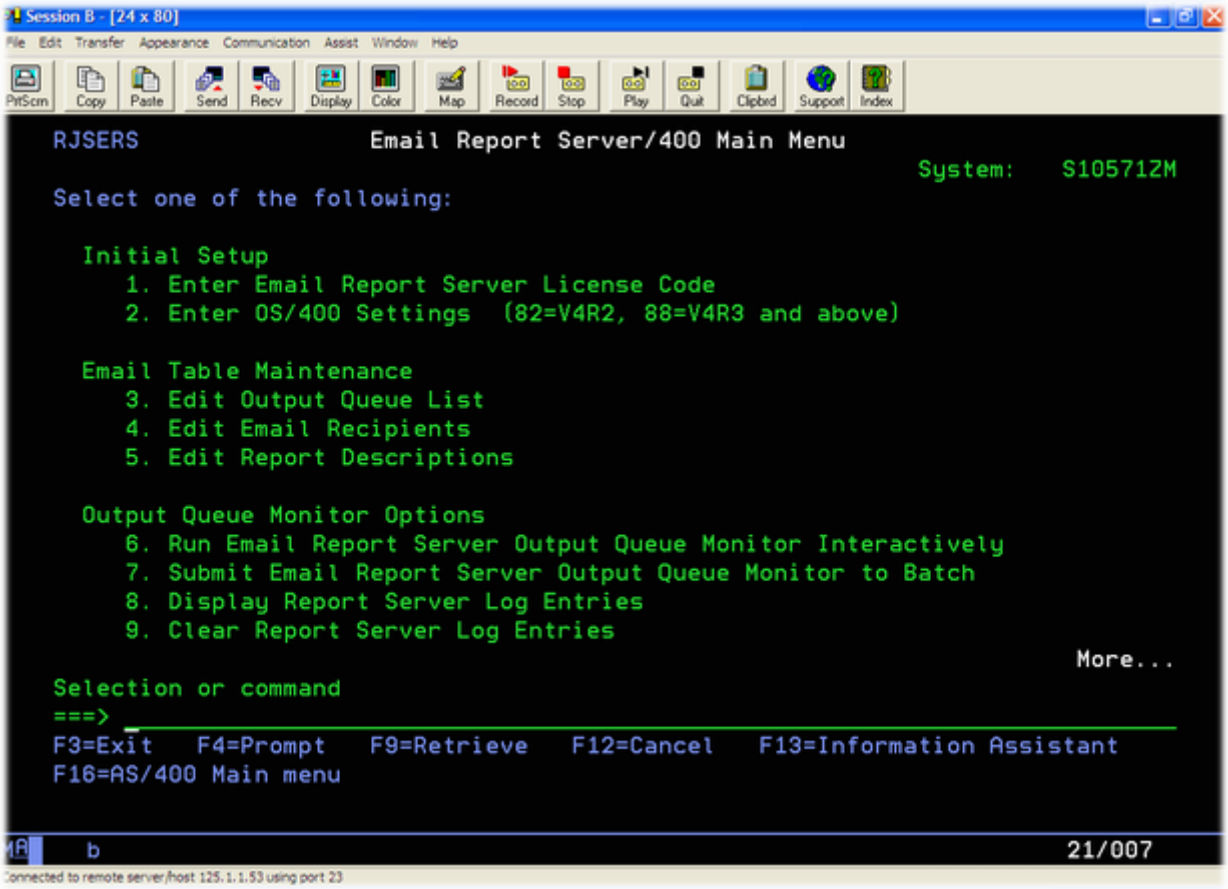
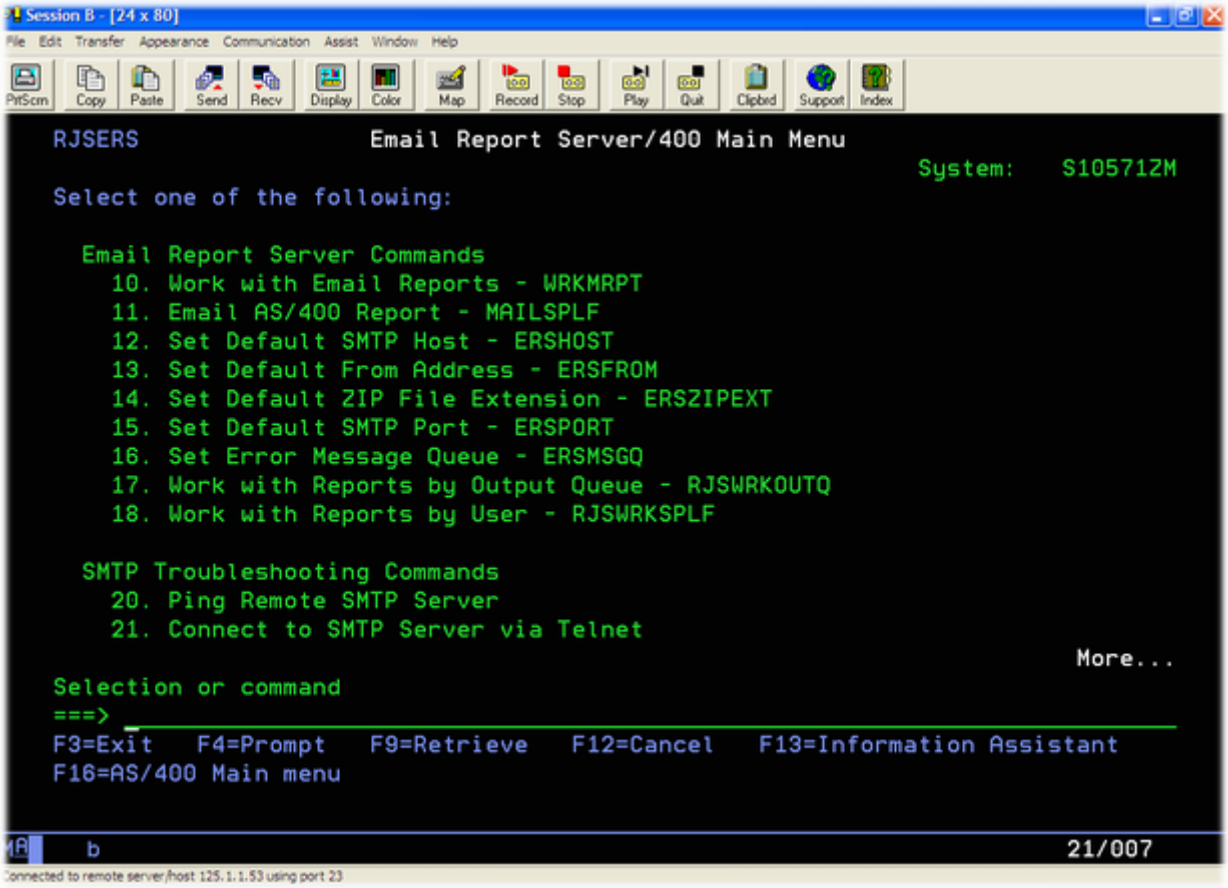

Session B - [24 x 80]
File Edit Transfer Appearance Communication Assist Window Help
PrtScrn Copy Paste Send Recv Display Color Map Record Stop Play Quit Clipbrd Support Index
RJSERS Email Report Server/400 Main Menu
System: S10571ZM
Select one of the following:
Initial Setup
1. Enter Email Report Server License Code
2. Enter OS/400 Settings (82=V4R2, 88=V4R3 and above)
Email Table Maintenance
3. Edit Output Queue List
4. Edit Email Recipients
5. Edit Report Descriptions
Output Queue Monitor Options
6. Run Email Report Server Output Queue Monitor Interactively
7. Submit Email Report Server Output Queue Monitor to Batch
8. Display Report Server Log Entries
9. Clear Report Server Log Entries
More...
Selection or command
===>
F3=Exit F4=Prompt F9=Retrieve F12=Cancel F13=Information Assistant
F16=AS/400 Main menu
MA b 21/007
Connected to remote server/host 125.1.1.53 using port 23

Email Report Server/400 Main Menu - Screen 1


Session B - [24 x 80]
File Edit Transfer Appearance Communication Assist Window Help
PrtScrn Copy Paste Send Recv Display Color Map Record Stop Play Quit Clipbrd Support Index
RJSERS Email Report Server/400 Main Menu
System: S10571ZM
Select one of the following:
Email Report Server Commands
10. Work with Email Reports - WRKMRPT
11. Email AS/400 Report - MAILSPLF
12. Set Default SMTP Host - ERSHOST
13. Set Default From Address - ERSFROM
14. Set Default ZIP File Extension - ERSZIPEXT
15. Set Default SMTP Port - ERSPORT
16. Set Error Message Queue - ERSMSGQ
17. Work with Reports by Output Queue - RJSWRKOUTQ
18. Work with Reports by User - RJSWRKSPLF
SMTP Troubleshooting Commands
20. Ping Remote SMTP Server
21. Connect to SMTP Server via Telnet
More...
Selection or command
===>
F3=Exit F4=Prompt F9=Retrieve F12=Cancel F13=Information Assistant
F16=AS/400 Main menu
MA b 21/007
Connected to remote server/host 125.1.1.53 using port 23

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4.2 Getting to the Main Menu

Sign on to the AS/400 system and add the RJSERS library to your library list using the following AS/400 command: ADDLIBLE RJSERS.

Next type: GO RJSERS and press enter. This will take you to the Email Report Server/400 main menu.

4.3 Available Options on the Main Menu

Option 1 – Enter Email Report Server/400 License Code
This menu option is used to enter the AS/400 access code for the Email Report Server/400 software. An access code will be provided to you by RJS Software Systems Inc.

Option 2 – Enter OS/400 Settings
This menu option is used to enter OS/400 version specific settings.

Enter 82 if using OS/400 V4R2 or enter 88 if using OS/400 V4R3 or newer.

Option 3 – Edit Output Queue List
This menu option is used to enter a list of output queues to monitor when the output queue monitor program is run to automatically deliver reports via email.

Option 4 – Edit Email Recipient List
This menu option is used to enter a list of email recipients for the selected output queues. Reports can be selectively extracted by spool file name, user data, user id, job name, form type or the AS/400 program name that created the report. Reports can be routed to different email addresses based on these settings.

Option 5 – Edit Report Descriptions
This menu option is used to enter a list of spool file names and the English report description that will be assigned to each report name. A report description can be assigned based on spool file name and user data, if needed. The report descriptions will show up in the Subject line of any emails sent.

Option 6 – Run Email Report Server Output Queue Monitor Interactively
This menu option is used to run the ERSMON command interactively.

Option 7 – Submit Email Report Server Output Queue Monitor to Batch
This menu option is used to run the ERSMON command as a batch job.

Option 8 – Display Report Server Log Entries
This menu option is used to display the Output Queue Monitor log entries.

Option 9 – Clear Report Server Log Entries
This menu option is used to clear the Output Queue Monitor log file.

Option 10 – Work with Email Reports - WRKMRPT
This menu option is similar to the WRKOUTQ command and is used to display a list of all reports

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from a selected output queue. Reports can be manually emailed from this screen.

Option 11 – Mail Spool File Command - MAILSPLF
The MAILSPLF command can be run from the AS/400 command line or can be embedded into any AS/400 CL, RPG or COBOL program to email a selected AS/400 report. This API command is nice for writing quick and easy email integration into any AS/400 application.

Option 12 – Set Default SMTP Host - ERSHOST
Set SMTP mail server host name. Before setting this option host entry that points to your SMTP mail server must be created via the GO CFGTCP menu option 10.

Option 13 – Set Default From Address - ERSFROM
Set the default email address that will be used as the from address when delivering reports.

Option 14 – Set Default ZIP File Extension - ERSZIPEXT
You can change the default zip file extension if you use a different compression utility. Typically ZIP is used if you use Winzip for your compression software.

Option 15 – Set Default SMTP Port - ERSPORT
This menu option allows you to change your default SMTP port if you are using a different port other than 25.

Option 16 – Set Error Message Queue - ERSMSGQ
This menu option is used to change the message queue you want all errror messages going to.

Option 17 – Work with Reports by Output Queue - RJSWRKOUTQ
This menu option is a custom WRKOUTQ command that allows a user to easily email a report interactively at the output queue level. This menu command is explained more indepth under the AS/400 Commands section.

Option 18 – Work with Reports by User - RJSWRKSPLF
This menu option is a custom WRKOUTQ command that allows a user to easily email a report interactively at the spool file level. This menu command is explained more indepth under the AS/400 Commands section.

Option 20 – Ping Remote SMTP Server
This menu option is used for troubleshooting. If you are having troubles emailing, you can PING your SMTP server to make sure the IP address is available.

Option 21 – Connect to SMTP Server via Telnet
This menu option is used for troubleshooting. If you are having troubles emailing, you can Telnet to your SMTP server to make your AS/400 is able to connect to your SMTP server.

Option 22 – AS/400 TCP/IP Configuration Menu
This menu option is a short cut to your AS/400 TCP/IP configuration menu for setting up your host table entry.

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Option 30 – Edit Address Book
This menu option is a built in email address book. You can use are built in email address book for easy email address look ups, custom email groups, and much more.

Option 31 – Address Book Inquiry
This menu option is used only for looking up entries in the email address book.

Option 40 – Set Global Disclaimer Message Option - ERDISCLAIM
This menu option enables or disables the Global Disclaimer Message Text option.

Option 41 – Set Global Disclaimer Message Text - ERSDMSG
This menu option is used to set the global disclaimer message that sent with every outgoing email.

Option 42 – Edit CSV Converter Report Masks - CSV101
This menu option is used if you are using our CSV Report Converter/400. This menu option allows you to create a new CSV mask or edit any current masks.

Option 50 – Enter Fax Report Server License Code
This setting is used only if you are using our Enterprise Fax Solution

Option 51 – Set Fax Server to Use - ERSSETFAX
This setting is used only if you are using our Enterprise Fax Solution

Option 52 – Set Fax Host Name - ERSHOSTFAX
This setting is used only if you are using our Enterprise Fax Solution

Option 53 – Fax Spool File with Castelle FaxPress - FAXCASTELE
This setting is used only if you are using our Enterprise Fax Solution

5 Entering Output Queue Information

5.1 Introduction to Entering Output Queue Information

This section gives an overview of entering Output Queue information for the Output Queue Monitor process.

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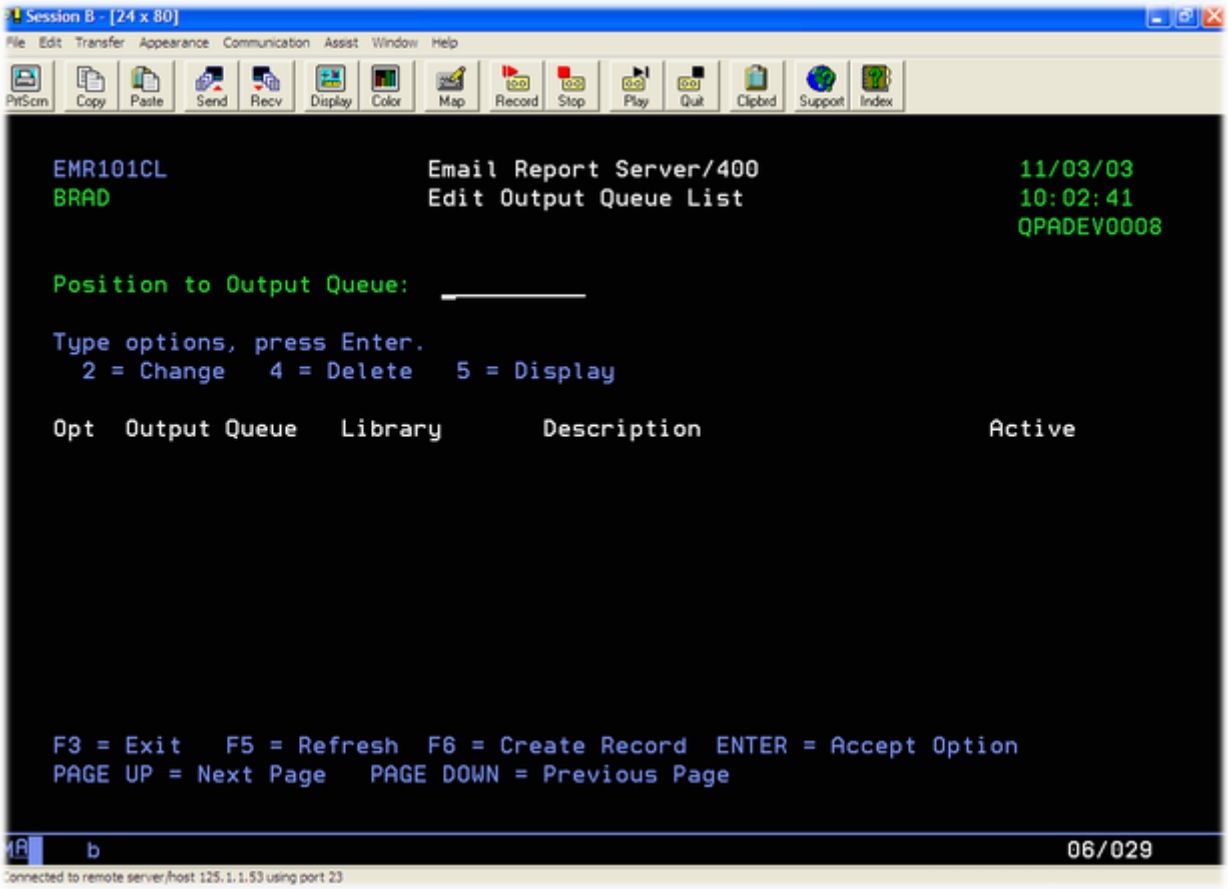
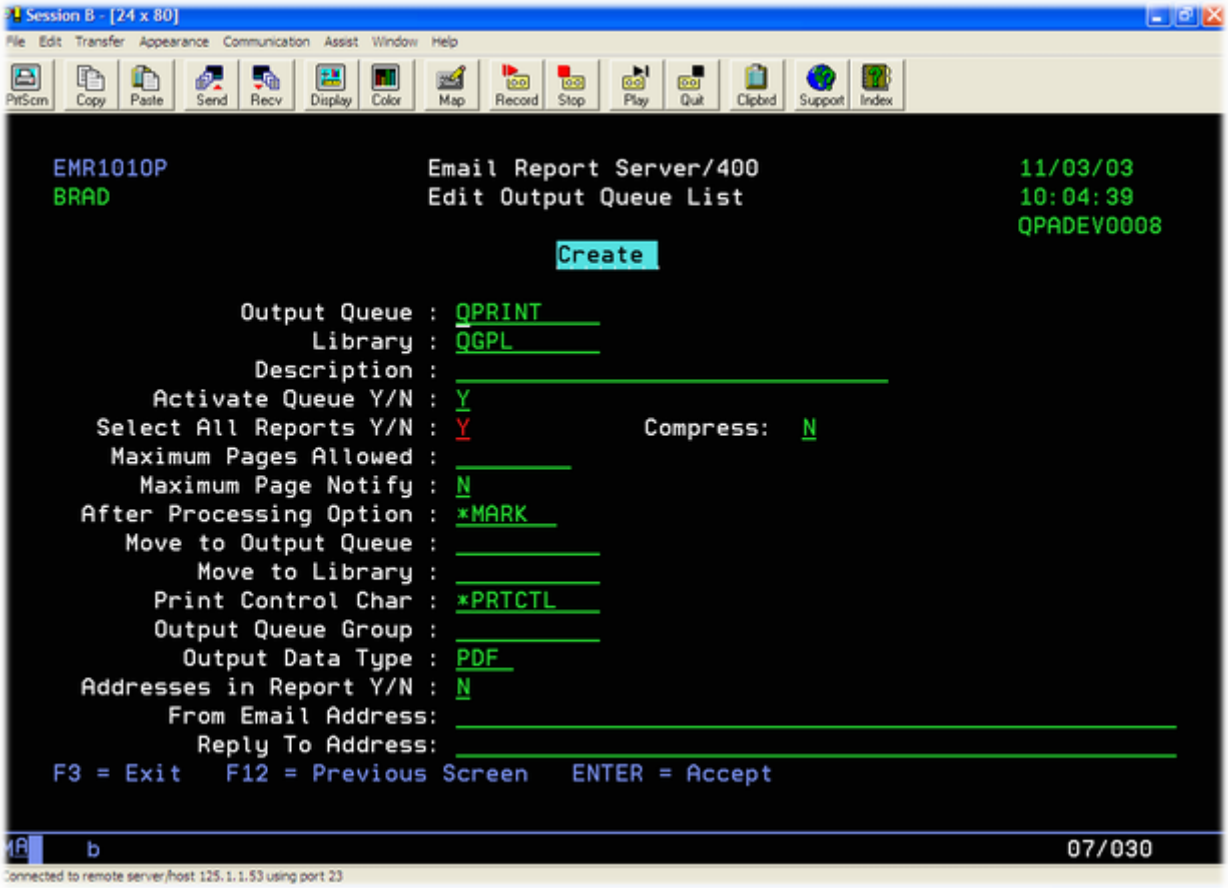

Session B - [24 x 80]
File Edit Transfer Appearance Communication Assist Window Help
PrtScrn Copy Paste Send Recv Display Color Map Record Stop Play Quit Clipbrd Support Index
EMR101CL
BRAD
Email Report Server/400
Edit Output Queue List
11/03/03
10:02:41
QPADEV0008
Position to Output Queue:
Type options, press Enter.
2 = Change 4 = Delete 5 = Display
Opt Output Queue Library Description Active
F3 = Exit F5 = Refresh F6 = Create Record ENTER = Accept Option
PAGE UP = Next Page PAGE DOWN = Previous Page
MA b 06/029
Connected to remote server/host 125.1.1.53 using port 23

Edit Output Queue List Main Screen


Session B - [24 x 80]
File Edit Transfer Appearance Communication Assist Window Help
PrtScrn Copy Paste Send Recv Display Color Map Record Stop Play Quit Clipbrd Support Index
EMR1010P
BRAD
Email Report Server/400
Edit Output Queue List
11/03/03
10:04:39
QPADEV0008
Create
Output Queue : QPRINT
Library : QGPL
Description :
Activate Queue Y/N : Y
Select All Reports Y/N : Y Compress: N
Maximum Pages Allowed :
Maximum Page Notify : N
After Processing Option : *MARK
Move to Output Queue :
Move to Library :
Print Control Char : *PRTCTL
Output Queue Group :
Output Data Type : PDF
Addresses in Report Y/N : N
From Email Address:
Reply To Address:
F3 = Exit F12 = Previous Screen ENTER = Accept
MA b 07/030
Connected to remote server/host 125.1.1.53 using port 23

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5.2 Getting to the Edit Output Queue List Screen

Sign on to the AS/400 system and add the RJSERS library to your library list using the following AS/400 command: ADDLIBLE RJSERS.

Next type: GO RJSERS and press enter. This will take you to the Email Report Server/400 main menu.

Select option 3 to start the program.

5.3 Function Keys on Entering Output Queue Information

F3	Exit program.
F5	Refresh subfile list.
F6	Create new record.
ENTER	Accept entry.
Page Up/Down	Page through available records.

5.4 Options on Entering Output Queue Information

2	Edit existing record.
4	Delete selected record.
5	Display selected record.

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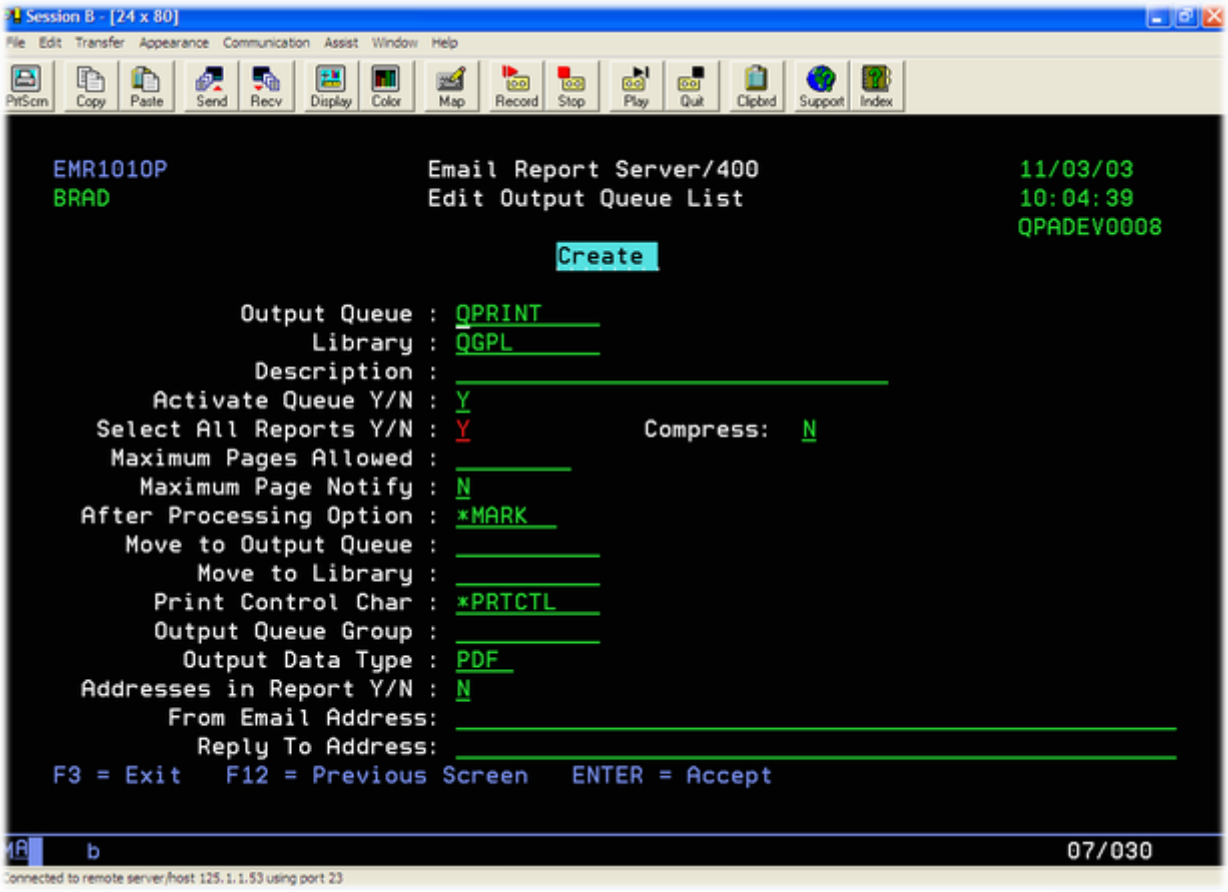
5.5 Edit Output Queue List Entry Fields


Session B - [24 x 80]
File Edit Transfer Appearance Communication Assist Window Help
PrtScrn Copy Paste Send Recv Display Color Map Record Stop Play Quit Clipbrd Support Index
EMR1010P
BRAD
Email Report Server/400
Edit Output Queue List
11/03/03
10:04:39
QPADEV0008
Create
Output Queue : QPRINT
Library : QGPL
Description :
Activate Queue Y/N : Y
Select All Reports Y/N : Y
Compress: N
Maximum Pages Allowed :
Maximum Page Notify : N
After Processing Option : *MARK
Move to Output Queue :
Move to Library :
Print Control Char : *PRTCTL
Output Queue Group :
Output Data Type : PDF
Addresses in Report Y/N : N
From Email Address:
Reply To Address:
F3 = Exit F12 = Previous Screen ENTER = Accept
b
07/030
Connected to remote server/host 125.1.1.53 using port 23

Edit Output Queue List Detail Screen

Output Queue/Lib
Enter the selected output queue and library name. This output queue will be monitored when the Email Report Server/400 Output Queue Monitor is run.

Description
Enter a text description for the output queue.

Activate Entry
Activate the setting.

Y=Yes.
N=No.

Select All Reports
This setting is not currently used.

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Maximum Pages Allowed
This setting allows users to set a limit on report sizes sent. If the number of pages excedes the maximum the report will not be sent.

Maximum Page Notify
Sends the recipient an email notification if a report could not be sent because maximum number of pages was exceeded.

Y = This setting is enabled.
N = This setting is disabled.

After Processing Option
What should be done with the report after it's been processed?

*NONE - Does nothing with the original report after it has been emailed
*MARK - Puts a *SENT in the user data field of a report after it has been emailed
*MOVE - Moves the report to an output queue of your choice after it's been emailed.
*DELETE - Deletes the original report after it has been emailed

Move To Output Queue/Lib
Enter the selected output queue and library name where the report will be moved to after processing when *MOVE is selected for the After Processing option.

Print Control Characters
*PRTCTL - (Default) This should normally be used to insure proper report conversion to the HTML, PRN, PDF, RTF and TXT formats.

*NONE - This option will convert the report to a text format without any Print Control Characters. SPL should be used for the Output Data Type when this option is used.

*FCFC - This option will convert the report to a text format with ANSI Print Control Characters. SPL should be used for the Output Data Type when this option is used. This format is usually used if a report will be sent to a COLD system or to a Microfiche vendor.

Output Queue Group
When running the output queue monitor, selected queues can be processed by utilizing the Output Queue Group parameter on the ERSMON command. This parameter is useful if only certain output queues need to be processed during an output queue monitor run. A good example would be if a company has selected output queues that will be processed on a daily, weekly or monthly basis.

Output Data Type
Enter the selected report output data type:

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ADF No longer used.

AFP Raw spool file data is stored in the database attachment. The report data is extracted as is and can be SCS, AFP/IPDS, raw PCL or Postscript created with products such as CreatePrint, EZ Print/400, Formation MG or any other PCL or Postscript based electronic forms software package. SCS or AFP/IPDS reports can be viewed with the Client Access/400 AFP/IPDS viewer. Raw PCL data can be viewed or converted with special converters or can be sent directly to any PCL printer for printing. Contact RJS Software Systems Inc. if you would like to discuss your PCL report viewing and distribution needs.

CSV Report is converted to CSV format with the RJS CSV Report Converter. CSV files can be opened with Excel and other applications that support CSV.

HTM The text report is delivered in HTML Web Browser format.

MSG Report is embedded in the body of the email message. No attachment is sent.

PCL Raw spool file data is stored in the database attachment. The report data is extracted as is and can be SCS, AFP/IPDS, raw PCL or Postscript created with products such as CreatePrint, EZ Print/400, Formation MG or any other PCL or Postscript based electronic forms software package. SCS or AFP/IPDS reports can be viewed with the Client Access/400 AFP/IPDS viewer. Raw PCL data can be viewed or converted with special converters or can be sent directly to any PCL printer for printing. Contact RJS Software Systems Inc. if you would like to discuss your PCL report viewing and distribution needs.

PDF The text report is delivered in Adobe Acrobat PDF format. AFP reports can be sent as PDF if using RJS AFP to PDF Report Converter. PCL reports can be sent as PDF if using RJS PCL to PDF Report Converter. Electronic forms can be sent as PDF if WinSpool/400 Electronic Forms software is used to generate electronic forms with overlays.

PRN The text report is delivered in ASCII Text format with all the line & page breaks intact.

RTF The text report is delivered in MS Word Rich Text format.

SPL The text report is delivered in ASCII Text format with all print control characters intact. The following print control character formats can be used: *FCFC, *PRTCTL or *NONE. This format is usually used if the reports will be viewed with the RJS WinView/400 report viewing software.

TIF Host Print Transform is used to convert AFP/IPDS reports into TIF format. The text or AFPDS report is delivered in Multi-Page TIFF image format. This format can be viewed with the built-in Imaging for Windows software included with Windows 95/98/NT/2000 or any other viewing program that can view Multi-Page TIFF images. This is a perfect way to email AFP/IPDS reports for viewing. AFP/IPDS report layouts may need to be tweaked to work correctly with Host

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Addresses in Report
The Addresses in Report setting allows users to embed a list of Email Recipients within the first few lines of an AS/400 report. This is usually done by creating a user-defined report cover page to print the selected Email addresses along with our special MAILTO: keyword. Our AS/400 Report Splitter software can be utilized to automatically add report cover pages to existing reports, so no special coding changes are necessary. Other AS/400 Report Distribution packages can also be utilized to add report cover pages.

This processing scenario allows AS/400 users who already have an AS/400 based Email Address table to utilize this information when distributing reports via Email. They simply print the MAILTO: keyword and the appropriate Email addresses within the first 150 lines of the report and the Email Report Server does the rest of the work. This scenario also eliminates the Email Report Server table maintenance required to set up new Email Recipients.

When processing, the Email Report Server reads all the reports in the selected output queue and scans up to 150 lines of each report for the MAILTO: keyword. Whenever the MAILTO: keyword is encountered, the entire line is parsed for Email Addresses. A single line can contain multiple Email Addresses delimited by a semicolon (;) Multiple MAILTO: lines can be embedded in the report as long as they are within the first 150 lines of the report. Each selected Email Address will receive a copy of the selected report.

Example Address Line: MAILTO: sales@rjssoft.com; support@rjssoft.com

Y = This setting is enabled.
N = This setting is disabled.

From Email Address
Set the default email address at the output queue level that will be used as the from address when delivering reports. This setting is used when *OUTQ is specified for the From Email Address on the ERSMON command

Reply To Address
Set the default reply to address at the output queue level that will be used as the reply to address when delivering reports. If a user replies to an email this will be the reply to email address

6 Entering Email Recipients

6.1 Introduction to Entering Email Recipients

This section gives an overview of entering email recipients for a selected Output Queue.

Email addresses can be embedded inside a report or in a reports User Defined Data attribute.

When embedding an email recipient in the report or User Defined Data, the following syntax must be used:

MAILTO: support@rjssoftware.com; sales@rjssoftware.com

Note: MAILTO is case sensitive and a colon must follow the MAILTO keyword. Email addresses must be separated by a semicolon. If there is data on the same line that follows the email addresses you must use a ~ at the end of you listed email addresses.

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Example: MAILTO: support@rjssoftware.com; sales@rjssoftware.com~

The GROUP keyword can be embedded inside a report if email recipients are entered in the Address Book with a keyword entered in the group setting.

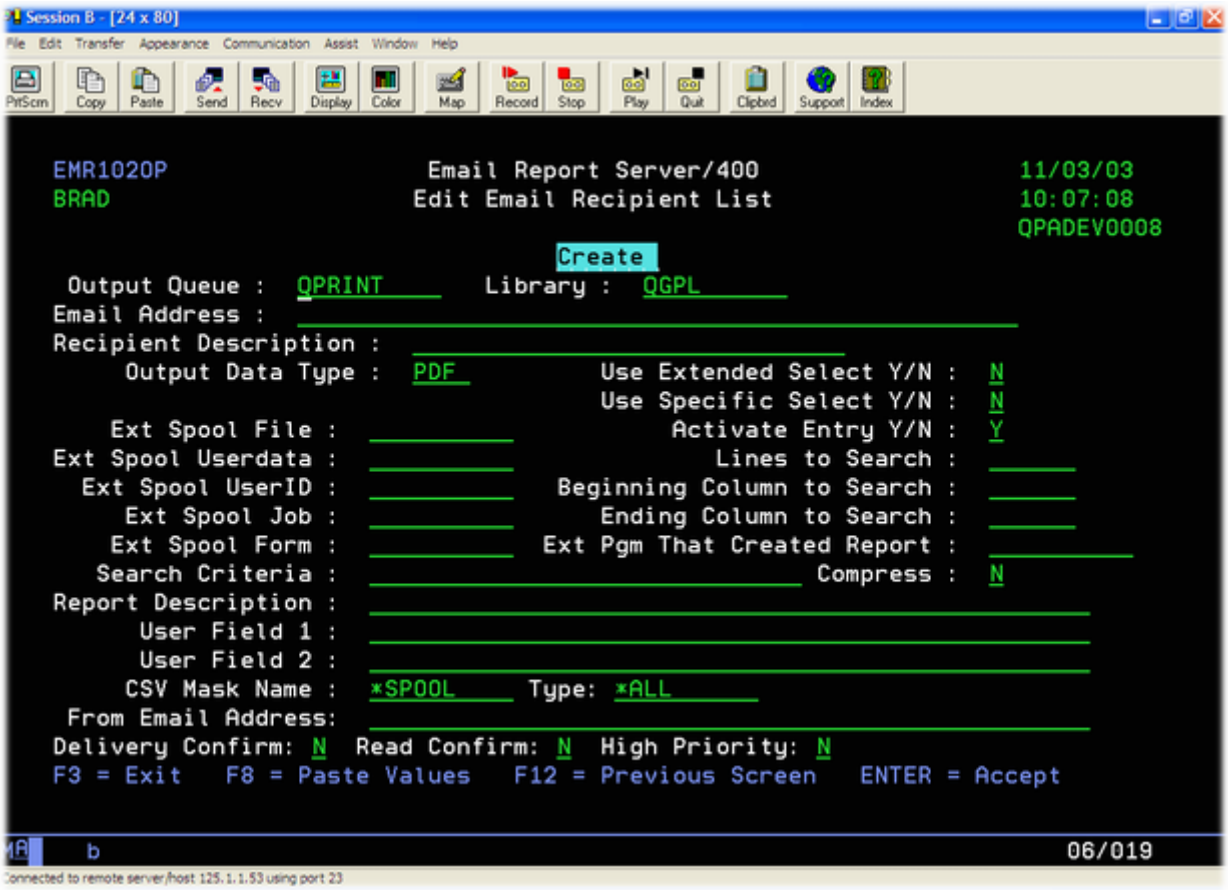
GROUP:SUPPORT

Note: GROUP is case sensitive and a colon must follow the GROUP keyword.

The MAILKEY keyword can be embedded inside a report if email recipients are entered in the Address Book with a keyword entered in the user key setting. This key can be used by custom user applications to lookup email address info.

MAILKEY:SUPPORT

Note: MAILKEY is case sensitive and a colon must follow the MAILKEY keyword.


Session B - [24 x 80]
EMR1020P
Email Report Server/400
11/03/03
BRAD
Edit Email Recipient List
10:07:08
QPADEV0008
Create
Output Queue : QPRINT Library : QGPL
Email Address :
Recipient Description :
Output Data Type : PDF
Use Extended Select Y/N : N
Use Specific Select Y/N : N
Ext Spool File :
Activate Entry Y/N : Y
Ext Spool Userdata :
Lines to Search :
Ext Spool UserID :
Beginning Column to Search :
Ext Spool Job :
Ending Column to Search :
Ext Spool Form :
Ext Pgm That Created Report :
Search Criteria :
Compress : N
Report Description :
User Field 1 :
User Field 2 :
CSV Mask Name : *SPOOL Type: *ALL
From Email Address:
Delivery Confirm: N Read Confirm: N High Priority: N
F3 = Exit F8 = Paste Values F12 = Previous Screen ENTER = Accept
06/019

Create Email Recipient Screen

6.2 Getting to the Edit Email Recipient List Settings Screen

Sign on to the AS/400 system and add the RJSERS library to your library list using the following AS/400 command:
ADDLIBLE RJSERS.

Next type: GO RJSERS and press enter. This will take you to the Email Report Server/400 main menu.

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Select option 4 to start the program.

6.3 Function Keys on Entering Email Recipients

F3	Exit program.
F5	Refresh subfile list.
F6	Create new record.
ENTER	Accept entry.
Page Up/Down	Page through available records.

6.4 Options on Entering Email Recipients

2	Edit existing record.
4	Delete selected record.
5	Display selected record.

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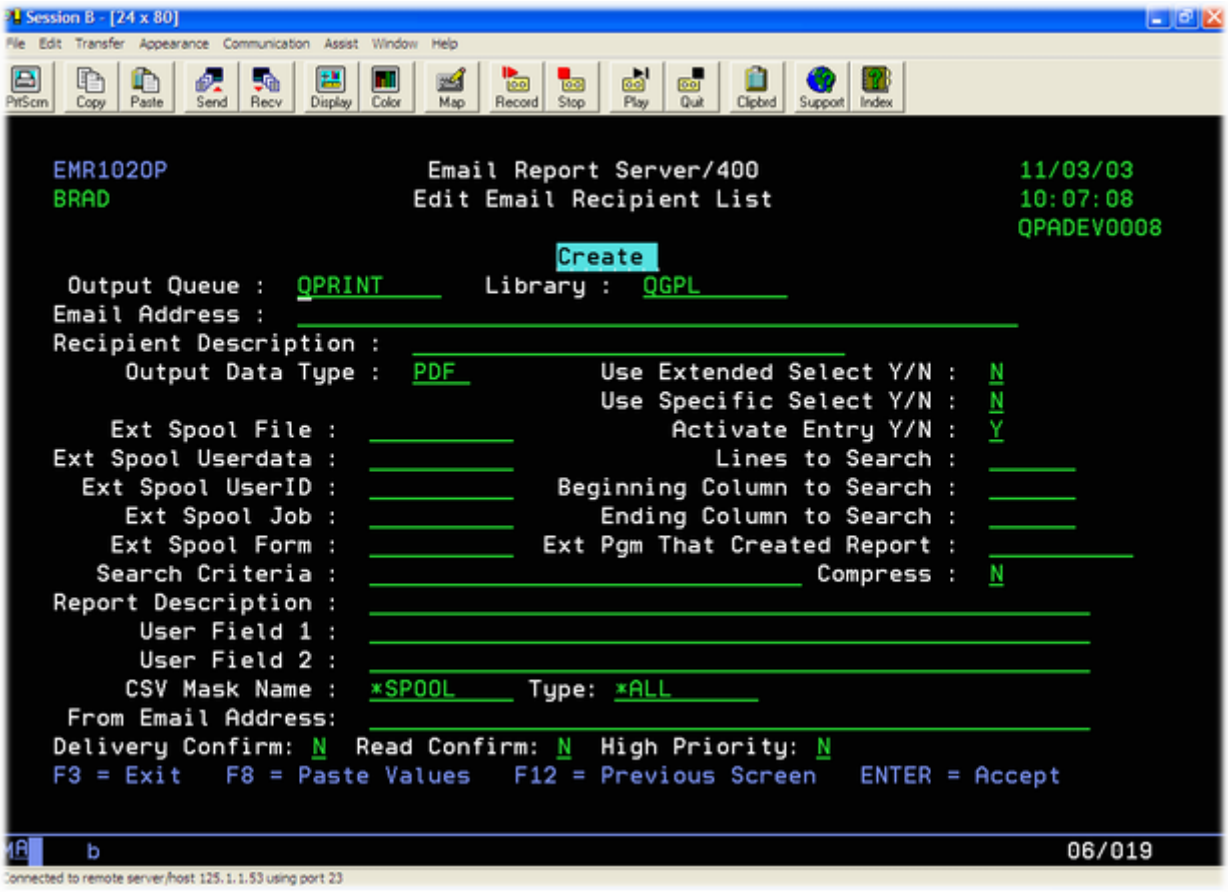
6.5 Edit Email Recipient List Entry Fields


Session B - [24 x 80]
File Edit Transfer Appearance Communication Assist Window Help
PrtScrn Copy Paste Send Recv Display Color Map Record Stop Play Quit Clipbd Support Index
EMR1020P
BRAD
Email Report Server/400
Edit Email Recipient List
11/03/03
10:07:08
QPADEV0008
Create
Output Queue : QPRINT Library : QGPL
Email Address :
Recipient Description :
Output Data Type : PDF
Use Extended Select Y/N : N
Use Specific Select Y/N : N
Ext Spool File :
Activate Entry Y/N : Y
Ext Spool Userdata :
Lines to Search :
Ext Spool UserID :
Beginning Column to Search :
Ext Spool Job :
Ending Column to Search :
Ext Spool Form :
Ext Pgm That Created Report :
Search Criteria :
Compress : N
Report Description :
User Field 1 :
User Field 2 :
CSV Mask Name : *SPOOL Type: *ALL
From Email Address:
Delivery Confirm: N Read Confirm: N High Priority: N
F3 = Exit F8 = Paste Values F12 = Previous Screen ENTER = Accept
b
06/019
Connected to remote server/host 125.1.1.53 using port 23

Create Email Recipient Screen

Output Queue/Lib
Enter the selected output queue and library name for the email recipient.

Email Address
Enter the selected email address. The email addresses MUST be entered in Internet format such as: support@rjssoftware.com.

Recipient Description
Enter a text description for the email recipient.

Output Data Type
Enter the selected report output data type: Setting/Converts to

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ADF No longer used.

AFP Raw spool file data is stored in the database attachment. The report data is extracted as is and can be SCS, AFP/IPDS, raw PCL or Postscript created with products such as CreatePrint, EZ Print/400, Formation MG or any other PCL or Postscript based electronic forms software package. SCS or AFP/IPDS reports can be viewed with the Client Access/400 AFP/IPDS viewer. Raw PCL data can be viewed or converted with special converters or can be sent directly to any PCL printer for printing. Contact RJS Software Systems Inc. if you would like to discuss your PCL report viewing and distribution needs.

CSV Report is converted to CSV format with the RJS CSV Report Converter. CSV files can be opened with Excel and other applications that support CSV.

HTM The text report is delivered in HTML Web Browser format.

MSG Report is embedded in the body of the email message. No attachment is sent.

PCL Raw spool file data is stored in the database attachment. The report data is extracted as is and can be SCS, AFP/IPDS, raw PCL or Postscript created with products such as CreatePrint, EZ Print/400, Formation MG or any other PCL or Postscript based electronic forms software package. SCS or AFP/IPDS reports can be viewed with the Client Access/400 AFP/IPDS viewer. Raw PCL data can be viewed or converted with special converters or can be sent directly to any PCL printer for printing. Contact RJS Software Systems Inc. if you would like to discuss your PCL report viewing and distribution needs.

PDF The text report is delivered in Adobe Acrobat PDF format. AFP reports can be sent as PDF if using RJS AFP to PDF Report Converter. PCL reports can be sent as PDF if using RJS PCL to PDF Report Converter. Electronic forms can be sent as PDF if WinSpool/400 Electronic Forms software is used to generate electronic forms with overlays.

PRN The text report is delivered in ASCII Text format with all the line & page breaks intact.

RTF The text report is delivered in MS Word Rich Text format.

SPL The text report is delivered in ASCII Text format with all print control characters intact. The following print control character formats can be used: *FCFC, *PRTCTL or *NONE. This format is usually used if the reports will be viewed with the RJS WinView/400 report viewing software.

TIF Host Print Transform is used to convert AFP/IPDS reports into TIF format. The text or AFPDS report is delivered in Multi-Page TIFF image format. This format can be viewed with the built-in Imaging for Windows software included with Windows 95/98/NT/2000 or any other viewing program that can view Multi-Page TIFF images. This is a perfect way to email AFP/IPDS reports for viewing. AFP/IPDS report layouts may need to be tweaked to work correctly with Host

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Use Extended Select
If this option is enabled, reports will be selectively extracted and mailed by using any combination of spool file name, user data, user id, job name, form type or the AS/400 program name.

By using this feature, special report programming for the Email Report Server can be virtually eliminated and reports can be consolidated into one or more output queues if desired.

Y = This setting is enabled.
N = This setting is disabled.

Use Specific Select
This setting will search the report for the selected search criteria string. If found, the report will be sent to this recipient.

Search Criteria
This setting is used if "Use Specific Select" is enabled. This setting is where you define what criteria you want to search for within a report.

Lines to Search
This setting is used if "Use Specific Select" is enabled. This setting is where you define how many lines you want to search for within a report for the criteria you have defined.

Beginning Column to Search
This setting is used if "Use Specific Select" is enabled. This setting is where you define the starting position of the criteria you are searching for.

Ending Column to Search
This setting is used if "Use Specific Select" is enabled. This setting is where you define the ending position of the criteria you are searching for.

Activate Entry
This setting is used to enable and disable an Email Recipient List Entry. Y=Yes, N=No.

Y = This setting is enabled.
N = This setting is disabled.

Compress
This setting is used to compress the size of the attachment before emailing. The attachment is compressed using zip technology.

Y = This setting is enabled.
N = This setting is disabled.

Ext Spool File
Enter the spool file name to select by. If the spool file is selected using this parameter, the selected report will be mailed to the email address identified in the Email Address field.

Ext Spool Userdata

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Enter the spool file user data to select by. If the spool file is selected using this parameter, the selected report will be mailed to the email address identified in the Email Address field.

Ext Spool UserID
Enter the spool file user id to select by. If the spool file is selected using this parameter, the selected report will be mailed to the email address identified in the Email Address field.

Ext Spool Job Name
Enter the spool file job name to select by. If the spool file is selected using this parameter, the selected report will be mailed to the email address identified in the Email Address field.

Ext Spool Form
Enter the spool file form type to select by. If the spool file is selected using this parameter, the selected report will be mailed to the email address identified in the Email Address field.

Ext Spool Pgm That Created Report
Enter the spool file program name to select by. If you're not sure which AS/400 program created a selected spool file, use the WRKOUTQ or WRKSPLF command to display a list of reports and then use option 8=Attributes, to view the attributes of a selected spool file. The program name will be displayed under the heading: Program that opened file.

If the spool file is selected using this parameter, the selected report will be mailed to the email address identified in the Email Address field.

Note: If no program name is shown on the spool file attributes, this field cannot be used for report selection.

Report Description
When a report is selected by one of the extended criteria, this field entry can be used to assign a report description. If nothing is entered in this field, the Edit Report Descriptions table will be used to assign the appropriate report description based on spool file name and user data. This report description will show up in the Subject line for the report when it's emailed

User Field 1
This field is used to hold user information. It currently has no specific use within the Email Report Server software.

User Field 2
This field is used to hold user information. It currently has no specific use within the Email Report Server software.

CSV Mask Name
If using the RJS CSV Report Converter, this parameter helps determine which mask name to use. Masks are used to break up a report into the appropriate columns and records. Mask names are usually based on the spool file name of the report along with a mask type which can be used to assign a mask to use. See CSV mask type for details on the mask type.

Note: If a mask is not found for the report, it will not be processed.

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*SPOOL is the default entry, however any mask name can be manually entered.

Note: Masks should usually based on spool file name.

Type
If using the RJS CSV Report Converter, this parameter helps determine which mask type to use. Masks are used to break up a report into the appropriate columns and records. Mask names are usually based on the spool file name of the report along with a mask type which can be used to assign a mask to use. Hard coded type values can also be used.

The following soft coded mask types are available:

***ALL** - A mask will be searched for based on the spool file name and each of the following criteria in order. This is the most exhaustive method of locating a mask name, but also can open up the potential for trouble if you start assigning mask types based on multiple values such as user data and form type. You should usually limit to assigning mask types based on one value such as user data, form type etc.

*ALL option search order: *PGM, *USERDATA, *FORMTYPE, *JOBNAME, *DEFAULT, No Mask Found

Note: If a mask is not found for the report, it will not be processed.

***DEFAULT** - A mask will be searched for based on the spool file name and the mask type of *DEFAULT. Using *DEFAULT usually signifies that only a single mask exists for the selected report.

***PGM** - A mask will be searched for based on the spool file name and program name that generated the report. If not found, a mask name will be searched for based on spool file name and *DEFAULT which usually signifies that only a single mask exists for the selected report.

***USERDATA** - A mask will be searched for based on the spool file name and user data value assigned to the report. If not found, a mask name will be searched for based on spool file name and *DEFAULT which usually signifies that only a single mask exists for the selected report.

***FORMTYPE** - A mask will be searched for based on the spool file name and form type value assigned to the report. If not found, a mask name will be searched for based on spool file name and *DEFAULT which usually signifies that only a single mask exists for the selected report.

***JOBNAME** - A mask will be searched for based on the spool file name and job name assigned to the report. If not found, a mask name will be searched for based on spool file name and *DEFAULT which usually signifies that only a single mask exists for the selected report.

From Email Address
Set the default email address at the recipient level that will be used as the from address when delivering reports. This setting is used when *RECIP is specified for the From Email Address on the ERSMON command.

Delivery Confirm
If enabled, this setting is used to request that a confirmation email is sent back to the From email address after a report is delivered.

Note: Not all mail servers support this setting, so this setting may not work as expected.

Y = This setting is enabled.
N = This setting is disabled.

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Read Confirm
If enabled, this setting is used to request that a confirmation email is sent back to the From email address after a report is opened for viewing by the recipient.

Note: Not all mail servers support this setting, so this setting may not work as expected.

Y = This setting is enabled.
N = This setting is disabled.

High Priority
If enabled, this setting is used to request that an email message is sent with high priority status. When the email arrives in the recipients mailbox, the mail will usually have an exclamation point next to the message to note that the message is high priority.

Note: Not all mail servers support this setting, so this setting may not work as expected.

Y = This setting is enabled.
N = This setting is disabled.

7 Enter Report Description Settings

7.1 Introduction to Enter Report Description Settings

This section gives an overview of Entering Report Descriptions.

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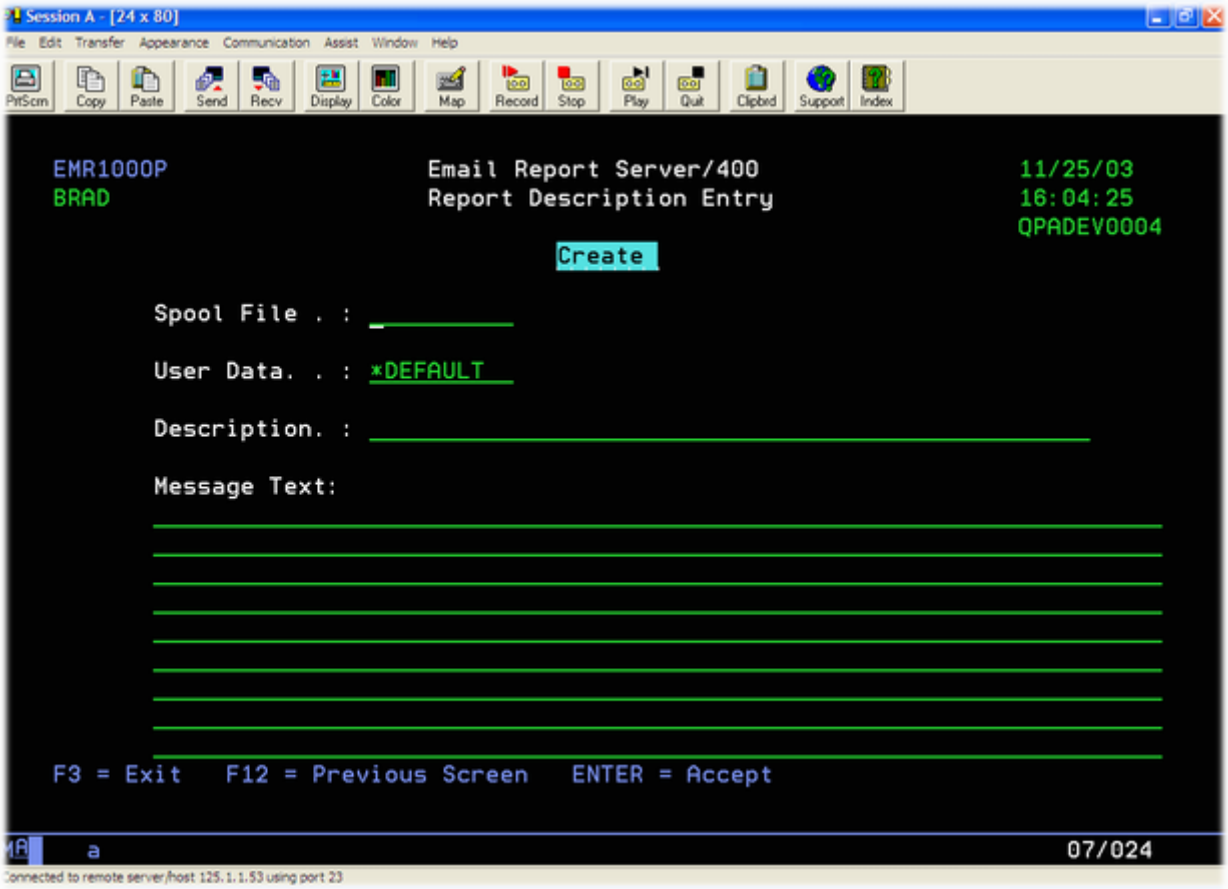

Edit Report Descriptions Detail Screen

7.2 Getting to the Edit Report Descriptions Screen

Sign on to the AS/400 system and add the RJSERS library to your library list using the following AS/400 command:
ADDLIBLE RJSERS.

Next type: GO RJSERS and press Enter. This will take you to the Email Report Server/400 main menu.

Select option 5 to start the program.

7.3 Function Keys on Enter Report Description Settings

F3	Exit program.
F5	Refresh subfile list.
F6	Create new record.
ENTER	Accept entry.
Page Up/Down	Page through available records.

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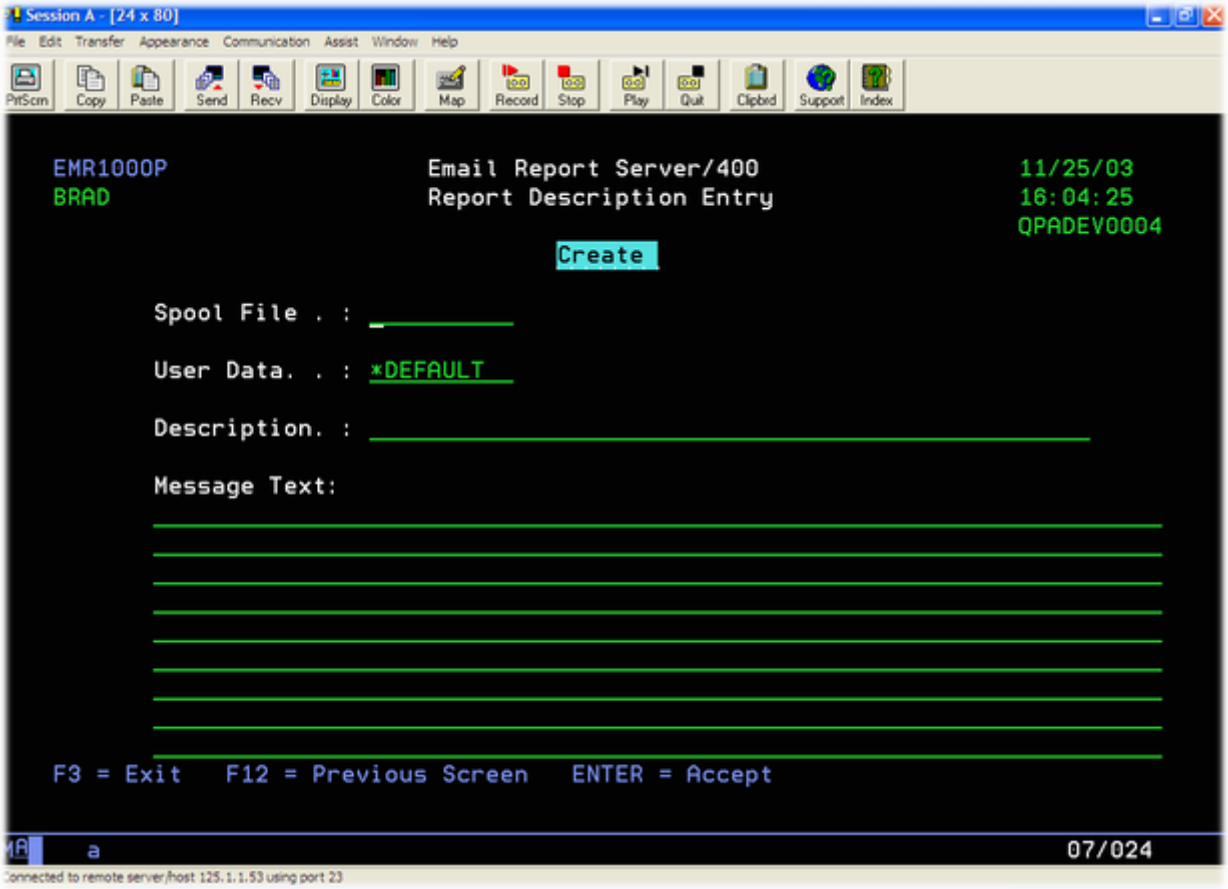
7.4 Options on Enter Report Description Settings

2	Edit existing record.
4	Delete selected record.
5	Display selected record.

7.5 Report Description Entry Fields



Edit Report Descriptions Detail Screen

Spool File
Enter the spool file name you are creating the description for.

User Data
Enter the spool file user data value for the spool file you are creating the description for. If you leave *DEFAULT for the user data value, only the spool file name will be used to assign the report description.

Description
Enter the report description to be assigned to the associated spool file.

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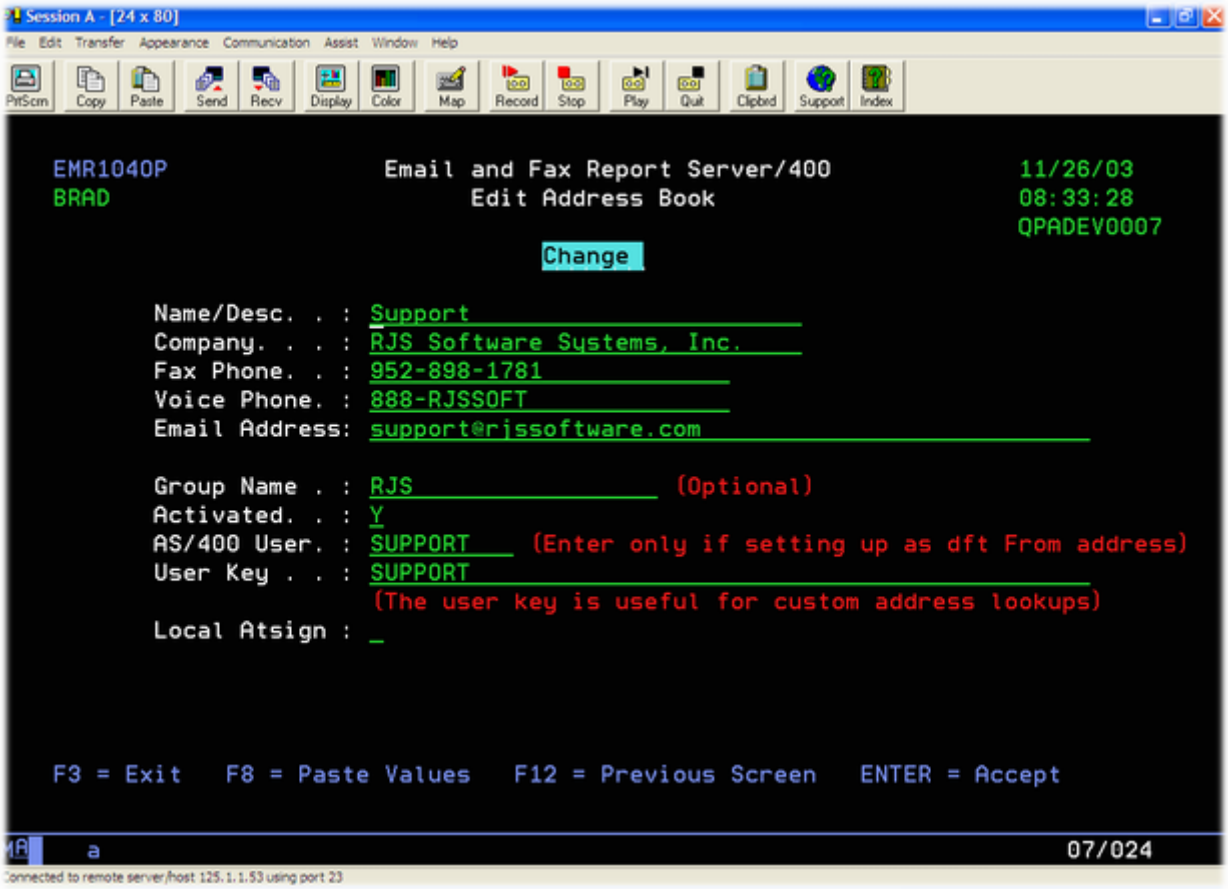
8 Using Address Book

8.1 Introduction to Address Book

This section gives an overview of entering recipients into our Address Book .


Session A - [24 x 80]
File Edit Transfer Appearance Communication Assist Window Help
PrtScrn Copy Paste Send Recv Display Color Map Record Stop Play Quit Clipbd Support Index
EMR1040P
BRAD
Email and Fax Report Server/400
Edit Address Book
11/26/03
08:33:28
QPADEV0007
Change
Name/Desc. . : Support
Company. . . : RJS Software Systems, Inc.
Fax Phone. . : 952-898-1781
Voice Phone. : 888-RJSSOFT
Email Address: support@rjssoftware.com
Group Name . : RJS (Optional)
Activated. . : Y
AS/400 User. : SUPPORT (Enter only if setting up as dft From address)
User Key . . : SUPPORT
(The user key is useful for custom address lookups)
Local Atsign :
F3 = Exit F8 = Paste Values F12 = Previous Screen ENTER = Accept
a
07/024
Connected to remote server/host 125.1.1.53 using port 23

Edit Address Book Detail Screen

8.2 Getting to the Edit Address Book Screen

Sign on to the AS/400 system and add the RJSERS library to your library list using the following AS/400 command:
ADDLIBLE RJSERS.

Next type: GO RJSERS and press Enter. This will take you to the Email Report Server/400 main menu.

Select option 30 to start the program.

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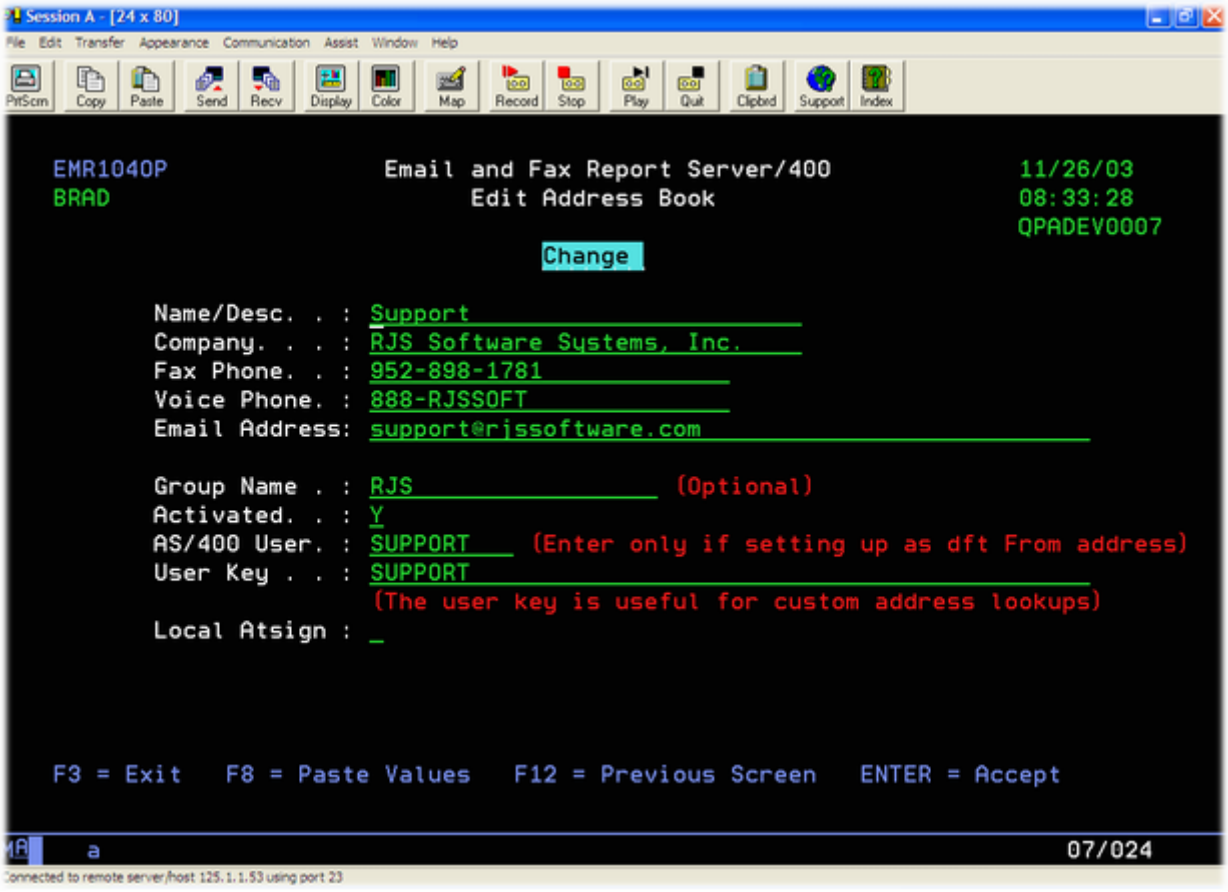
8.3 Function Keys on Edit Address Book

F3	Exit program.
F5	Refresh subfile list.
F6	Create new record.
ENTER	Accept entry.
Page Up/Down	Page through available records.

8.4 Options on Edit Address Book

2	Edit existing record.
4	Delete selected record.
5	Display selected record.

8.5 Edit Address Book Fields


Session A - [24 x 80]
File Edit Transfer Appearance Communication Assist Window Help
PrtScrn Copy Paste Send Recv Display Color Map Record Stop Play Quit Clipbrd Support Index
EMR1040P
BRAD
Email and Fax Report Server/400
Edit Address Book
11/26/03
08:33:28
QPADEV0007
Change
Name/Desc. . : Support
Company. . . : RJS Software Systems, Inc.
Fax Phone. . : 952-898-1781
Voice Phone. : 888-RJSSOFT
Email Address: support@rjssoftware.com
Group Name . : RJS (Optional)
Activated. . : Y
AS/400 User. : SUPPORT (Enter only if setting up as dft From address)
User Key . . : SUPPORT
(The user key is useful for custom address lookups)
Local Atsign :
F3 = Exit F8 = Paste Values F12 = Previous Screen ENTER = Accept
a
07/024
Connected to remote server/host 125.1.1.53 using port 23

Edit Address Book Screen

Name/Desc

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This is a name and/or description of the email address or fax address being added

Company
This setting is used if you are using our Enterprise Fax Solution.

Fax Phone
This setting is used if you are using our Enterprise Fax Solution.

Voice Phone
This setting is used if you are using our Enterprise Fax Solution.

Email Address
This is the email address for a specified user.

Group Name
The group name can be used when you want to send an email to a group of individuals. For example, when you create an email recipient record, instead of specifying a single email address you can use the syntax GROUP:SALES and it will send an email to everyone that is set up with a group name of SALES.

Activated
Y = This setting is enabled.
N = This setting is disabled.

AS/400 User
When sending an interactive email or running the RPTMON command, if you have *USERID for the From Email Address it will check to see if your user profile name is set up in the Email Address Book. If your AS/400 user profile matches this setting it will use the email address specified. Otherwise it will use the default email address.

User Key
If the user embeds MAILKEY: in the report text along with enabling Email Addresses in Report at the output queue level, this setting can be used to select this email recipient.

Example: MAILKEY:SUPPORT

Local Atsign
Not currently used.

9 AS/400 Commands

9.1 Introduction to AS/400 Commands

This section gives an overview of the main Email Report Server/400 commands.

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9.2 CHGCMDDFT: Change Command Default

This section goes over changing the default font sizes, paragraph spacing, page size, and default output data type for the MAILSPLF command.

To change the default font sizes for the Native PDF Report converter included with Email Report Server/400, run the following commands:
The following command changes the 80 character font size to 8 Points:
CHGCMDDFT CMD(RJSERS/ERS003) NEWDFT('FONTSIZ80(8)')

The following command changes the 132 character font size to 7 points:
CHGCMDDFT CMD(RJSERS/ERS003) NEWDFT('FONTSIZ132(7)')

The following command changes the 198 character or above font size to 6 points:
CHGCMDDFT CMD(RJSERS/ERS003) NEWDFT('FONTSIZ198(6)')

To change the default font sizes for the Native RTF Report converter included with Email Report Server/400, run the following commands:
The following command changes the 80 character font size to 8 Points:
CHGCMDDFT CMD(RJSERS/ERS004) NEWDFT('FONTSIZ80(8)')

The following command changes the 132 character font size to 7 points:
CHGCMDDFT CMD(RJSERS/ERS004) NEWDFT('FONTSIZ132(7)')

The following command changes the 198 character font size to 6 points:
CHGCMDDFT CMD(RJSERS/ERS004) NEWDFT('FONTSIZ198(6)')

To change the paragraph spacing for the Native RTF Report converter included with Email Report Server/400, run the following commands:
The following command changes the paper size to 8.5 x 11
CHGCMDDFT CMD(RJSERS/ERS004) NEWDFT('PAPERSIZE(*LETTER)')

The following command changes the paper size to A4
CHGCMDDFT CMD(RJSERS/ERS004) NEWDFT('PAPERSIZE(*A4)')

To change the page size for the Native RTF Report converter included with Email Report Server/400, run the following commands:
The following command changes the 80 character paragraph spacing to 9 points:
CHGCMDDFT CMD(RJSERS/ERS004) NEWDFT('PSPACE80(9)')

The following command changes the 132 character paragraph spacing to 8 points:
CHGCMDDFT CMD(RJSERS/ERS004) NEWDFT('PSPACE132(8)')

The following command changes the 198 character paragraph spacing to 8 points:
CHGCMDDFT CMD(RJSERS/ERS004) NEWDFT('PSPACE198(8)')

To change the default font sizes for the Native HTML Report converter included with Email Report Server/400, run the following commands:
The following command changes the 80 character font size to 8 Points:
CHGCMDDFT CMD(RJSERS/ERS008) NEWDFT('FONTSIZ80(8)')

The following command changes the 132 character font size to 7 points:
CHGCMDDFT CMD(RJSERS/ERS008) NEWDFT('FONTSIZ132(7)')

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The following command changes the 198 character or above font size to 6 points:
CHGCMDDFT CMD(RJSERS/ERS008) NEWDFT('FONTSIZ198(6)')

Enabling Automatic Font Scaling based on Page LPI/CPI
To enable the default page font scaling setting to automatically scale fonts to fit the page based on Page Length, Page Width, LPI and CPI, run the following command:

CHGCMDDFT CMD(RJSERS/ERS008) NEWDFT('PAGESCALE(*AUTO)')

****Note:** This setting is included with Email Report Server/400 V1.56 and above.

****Note:** Once you change this setting, all reports sent via the Email Report Server will use automatic page scaling. Since this option uses true page scaling, you may be required to change Page Length, Page Width, LPI or CPI values on your AS/400 print file in order for the PDF files to scale correctly without data begin cut off on the right side of the page. Make sure to test all reports that are currently being emailed before implementing this change in production.

Enabling Automatic Computer Output Reduction Scaling

Enabled with Email Report Server/400 V1.86 and above.

A new setting has been added to allow for computer output reduction (*COR). When this setting is enabled, PDF scaling will occur automatically based on the number of lines per page and the determined maximum number of characters across the page. This method is preferred over using the *AUTO option because no print file changes are necessary.

CHGCMDDFT CMD(RJSERS/ERS008) NEWDFT('PAGESCALE(*COR)')

Disabling Automatic Page Scaling
To disable the automatic page scaling, use the following command:

CHGCMDDFT CMD(RJSERS/ERS008) NEWDFT('PAGESCALE(*NONE)')

The following command sample changes the default output type to RTF for the MAILSPLF command:
CHGCMDDFT CMD(RJSERS/MAILSPLF) NEWDFT('CONVTYPE(RTF)')

9.3 ERSATTACH: Set Default Attach File Prefix

The following keywords can be entered into the ERSATTACH data area to change the report prefixes when mailed:

Default value - REPORT (Sets report file prefix name to REPORT.SPL, REPORT.PDF, etc....)

@SPOOL - Sets report file prefix name to Spool File Name.
@USERDATA - Sets report file prefix name to User Data value.
@JOBNAME - Sets report file prefix name to AS/400 job name.
@FORMTYPE - Sets report file prefix name to report form type.

The following command can be used to change the ERSATTACH data area:
ERSATTACH OPTION(*SET) ATTACHFILE(@SPOOL)

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9.4 ERSDBGPRT: Set Debug Print Option

Enabling this command will only work if ERSDEBUG is activated.

The ERSDBGPRT command is used to troubleshoot any SMTP email problems you are having. If you prompt on the ERSDBGPRT command and change your option to *SET and your setting to *YES, a debug report is generated to your default output queue after each email message is sent out. The spool file contains detailed SMTP debugging information. With this information you can typically determine why an email message cannot be sent out via your SMTP server.

The following command can be used to enable this option:
ERSDBGPRT OPTION(*SET) DEBUGOPT(*YES)

9.5 ERSDEBUG: Set Debug Option

Enabling this command allows you to use the ERSDBGPRT command for troubleshooting any problems you have emailing.

The following command can be used to enable this option:
ERSDEBUG OPTION(*SET) DEBUGOPT(*YES)

9.6 ERSDUPSPL: Duplicate Spooled File

This command can be useful when you want to duplicate or queue a copy of a report for additional processing.

1.) Listed below is an example of using the ERSDUPSPL command to duplicate a report and send to multiple email addresses. Notice that each email address is delimited by a semicolon (;) and the entire MAILTO: address line is terminated with a tilde (~). This format must be used when assigning multiple email addresses to a report.

The report will be duplicated to an output queue named ERSPDF which has been created to send out reports in PDF format. If you were to also want to send out RTF, HTML, etc., you would create a new output queue for each format and send reports to the corresponding output queue for conversion and emailing.

ERSDUPSPL FILE(QPJOBLOG) OUTQ(ERSPDF)
USRDFNDTA('MAILTO:sales@rjssoft.com;support@rjssoft.com;billing@rjssoft.com~')

2.) Listed below is an example of using the ERSDUPSPL command to duplicate a report and send to a single email address.

The report will be duplicated to an output queue named ERSPDF which has been created to send out reports in PDF format. If you were to also want to send out RTF, HTML, etc., you would create a new output queue for each format and send reports to the corresponding output queue for conversion and emailing.

ERSDUPSPL FILE(QPJOBLOG) OUTQ(ERSPDF) USRDFNDTA('sales@rjssoft.com')

9.7 ERSMON: Email Report Server Output Queue Monitor

The Output Queue Monitor is used to automatically monitor for new reports to email. This command can be run interactively or can be submitted to batch. Typically this option should be submitted to batch to run in job queue QSYSYNOMAX which is part of the QSYSWRK subsystem. This way the Email Report Server can run along with other server jobs.

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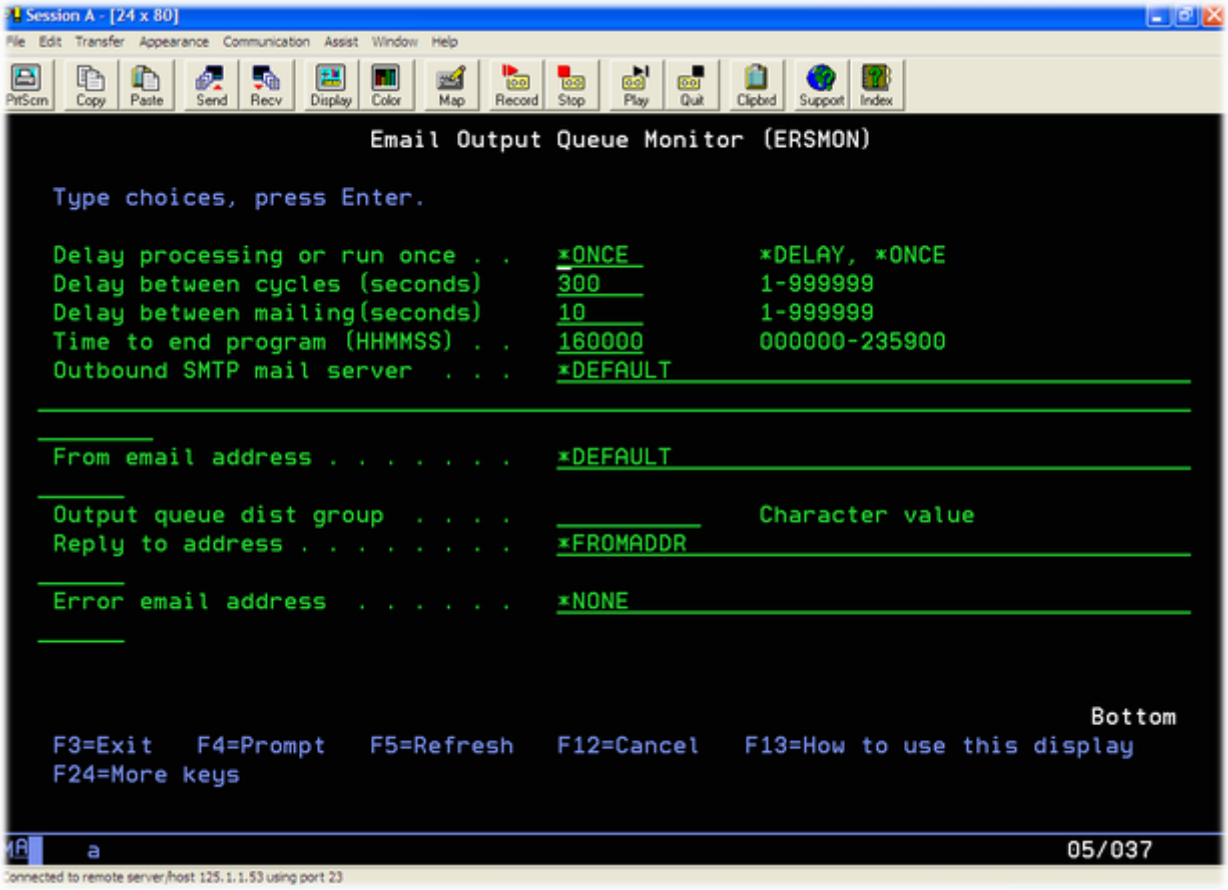
Example Output Queue Monitor command being submitted to batch:
SBMJOB CMD(ERSMON DELAY(*ONCE)) JOB(EMRPT400) JOBQ(QSYSNOMAX)

From the RJSERS menu, take option 6 to run the Output Queue Monitor interactively.

When the output queue monitor finishes, select option 8 to Display Report Server Log Entries.

If any errors are shown in the Report Server log, go back to the AS/400 command line and run the DSPJOBLOG command to view the Output Queue Monitor processing errors.


Session A - [24 x 80]
File Edit Transfer Appearance Communication Assist Window Help
PrtScrn Copy Paste Send Recv Display Color Map Record Stop Play Quit Clipbrd Support Index
Email Output Queue Monitor (ERSMON)
Type choices, press Enter.
Delay processing or run once . . *ONCE *DELAY, *ONCE
Delay between cycles (seconds) 300 1-999999
Delay between mailing(seconds) 10 1-999999
Time to end program (HHMMSS) . . 160000 000000-235900
Outbound SMTP mail server . . . *DEFAULT
From email address . . . . . *DEFAULT
Output queue dist group . . . . Character value
Reply to address . . . . . *FROMADDR
Error email address . . . . . *NONE
Bottom
F3=Exit F4=Prompt F5=Refresh F12=Cancel F13=How to use this display
F24=More keys
a
05/037
Connected to remote server/host 125.1.1.53 using port 23

Email Output Queue Monitor Screen

Delay Processing or Run
*ONCE
One time.

*DELAY
Periodically based on the number of seconds specified on the Delay between cycles parameter. The job should normally be submitted to jobq QSYSNOMAX so that it doesn't interfere with other jobs running in the system. The job will run in subsystem QSYSWRK.

Delay Between Cycles
Specify the number of seconds between processing cycles. 300 seconds = 5 minutes.

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Delay Between Mailing
Specify the number of seconds to wait between sending email messages. This setting is used to prevent the Email Report Server from overloading an SMTP email server by sending emails too quickly. This delay allows the Outbound SMTP mail server to have time to process each email prior to receiving the next email from the Email Report Server.

We have seen cases where the Email Report Server/400 software can work faster than the Outbound SMTP mail server. This is the reason for this parameter. Typically you can use a value from 1-10 seconds between emails.

Time to End Program
Specify the time to end the program. 160000 = 4:00pm.

Outbound SMTP Mail Server
Enter the Host Name or IP address for the selected SMTP email server.

From Email Address
Enter a return email address for the person sending the email. Make sure to enter a valid Internet email address, otherwise if the email message doesn't get delivered correctly, you will not receive a notification from your email system. The email addresses MUST be entered in Internet format such as: support@rjssoftware.com.

*DEFAULT - Uses system default data area

*USERID - Looks in address book for an AS/400 user that matches profile your signed on with .

*USERDEF - This option looks for the key word RPTUSER: followed by a user ID in the user defined data field of the report and then looks for thier user ID in the Address Book for the address to use

*RPTUSER - Uses the email address associated with the AS/400 user ID that generated the report. The output queue monitor will look up the user ID in the Address Book and determine the correct email address to use.

*OUTQ - Uses the from email address defined at the output queue level

*RECIP - Uses the from email address defined at the email recipient level

Output Queue Distribution
Enter the selected Output Queue Distribution Group. When running the output queue monitor, selected queues can be processed by utilizing the Output Queue Group parameter on the ERSMON command. This parameter is useful if only certain output queues need to be processed during an output queue monitor run. A good example would be if a company has selected output queues that will be processed on a daily, weekly or monthly basis.

Reply to Address
*FROMADDR - Sets the reply to address to the email address used as the default from address.

*TOADDR - Uses the to address as the from address. This is used so users are not able to reply to any emails that are sent.

*OUTQ - Sets the reply to address to the email address defined in the Edit Output Queue List.

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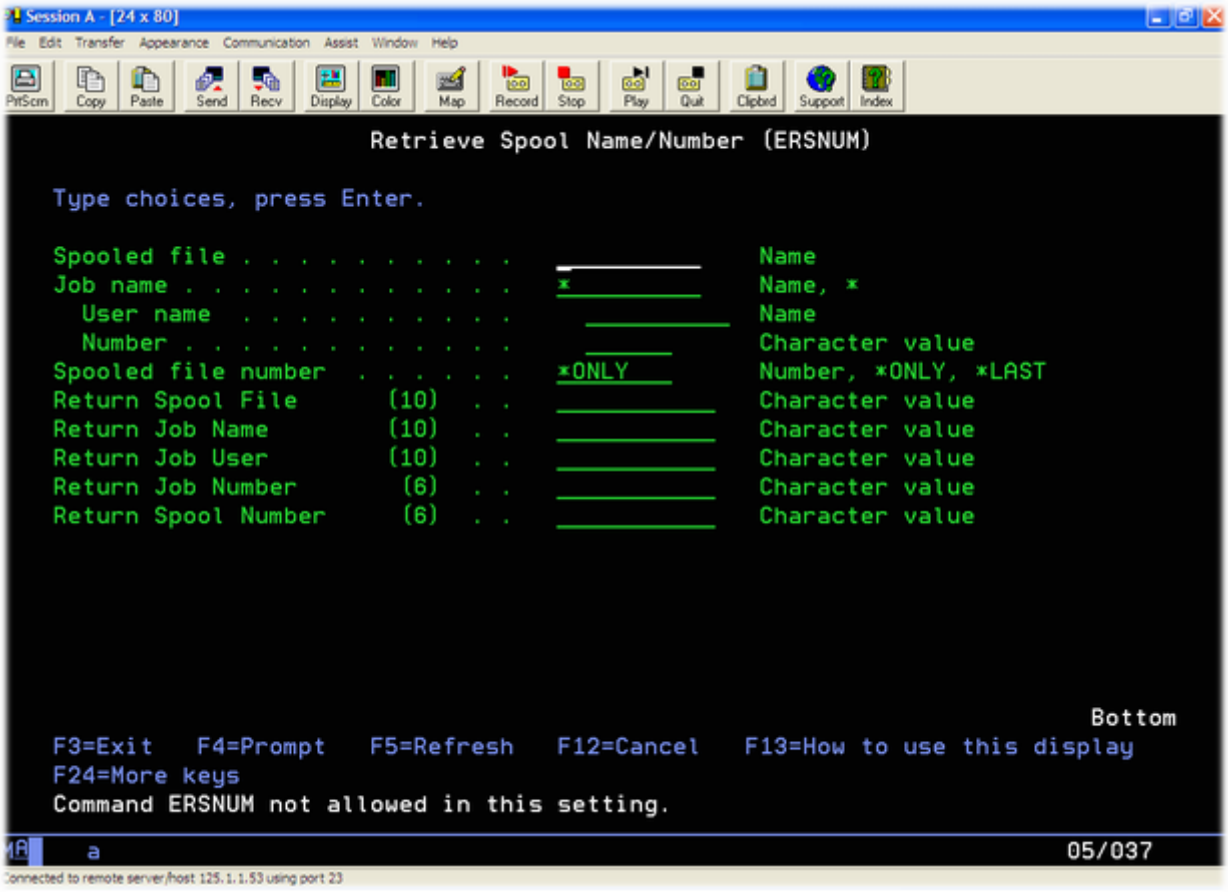
9.8 ERSNUM: Retrieve Spool File Name/Number

The ERSNUM command can be utilized by user applications to retrieve the spool file job information for a selected report before it's mailed with the MAILSPLF command.


Session A - [24 x 80]
File Edit Transfer Appearance Communication Assist Window Help
PrtScrn Copy Paste Send Recv Display Color Map Record Stop Play Quit Clipbd Support Index
Retrieve Spool Name/Number (ERSNUM)
Type choices, press Enter.
Spooled file . . . . . Name
Job name . . . . . * Name, *
User name . . . . . Name
Number . . . . . Character value
Spooled file number . . . . . *ONLY Number, *ONLY, *LAST
Return Spool File (10) . . Character value
Return Job Name (10) . . Character value
Return Job User (10) . . Character value
Return Job Number (6) . . Character value
Return Spool Number (6) . . Character value
Bottom
F3=Exit F4=Prompt F5=Refresh F12=Cancel F13=How to use this display
F24=More keys
Command ERSNUM not allowed in this setting.
a
05/037
Connected to remote server/host 125.1.1.53 using port 23

Retrieve Spool File Name/Number - ERSNUM Command Parameters Screen

Spool File Name
Enter the selected AS/400 spool file name. This information can be determined by using the WRKOUTQ command to display a report list.

Job Name/User Name/Job Number
Enter the selected spool file job name, user name and job number. This information can be determined by using the WRKOUTQ command to display a report list.

Spool File Number
Enter the selected spool file number. This information can be determined by using the WRKOUTQ command to display a report list.

Other valid values are *ONLY and *LAST. *ONLY will select the spool file if it's the only spool file in the selected job. *LAST will select the most recent spool file in the selected job.

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Return Spool File
This parameter will return a 10 character spool file name for the selected spool.

Return Job Name
This parameter will return a 10 character job name for the selected spool.

Return Job User
This parameter will return a 10 character user name for the selected spool.

Return Job Number
This parameter will return a 6 character job number for the selected spool.

Return Spool Number
This parameter will return a 4 character spool file number for the selected spool.

Code Example for Using ERSNUM and MAILSPLF
This sample runs an RPG program, retrieves the spool file information and then emails the selected report in PDF format.

```
PGM
DCL VAR(&RTNSPOOL) TYPE(*CHAR) LEN(10)
DCL VAR(&RTNJOB) TYPE(*CHAR) LEN(10)
DCL VAR(&RTNUSER) TYPE(*CHAR) LEN(10)
DCL VAR(&RTNJNBR) TYPE(*CHAR) LEN(6)
DCL VAR(&RTNSPLNBR) TYPE(*CHAR) LEN(4)
/*********************************************************/

/* RUN REPORT PROGRAM */
/*********************************************************/

CALL PGM(RPT100)
/*********************************************************/

/* RETRIEVE SPOOL FILE INFO FOR REPORT */
/*********************************************************/

ERSNUM SPLF(RPT100P) JOB(*) SPLNBR(*LAST) +
RTNSPLF(&RTNSPOOL) RTNJOBNAME(&RTNJOB) +
RTNJOBUSER(&RTNUSER) RTNJOBNUM(&RTNJNBR) +
RTNSPLNUM(&RTNSPLNBR)
/*********************************************************/

/* MAIL SELECTED REPORT */
/*********************************************************/

MAILSPLF FILE(&RTNSPOOL) +
JOB(&RTNJNBR/&RTNUSER/&RTNJOB) +
SPLNBR(&RTNSPLNBR) +
TOADDRESS(test@test.com) +
FRADDRESS(admin@as400.com) +
SUBJECT('AS/400 Report') CONVTYPE(PDF) +
SMTPHOST(LOCALHOST)
```

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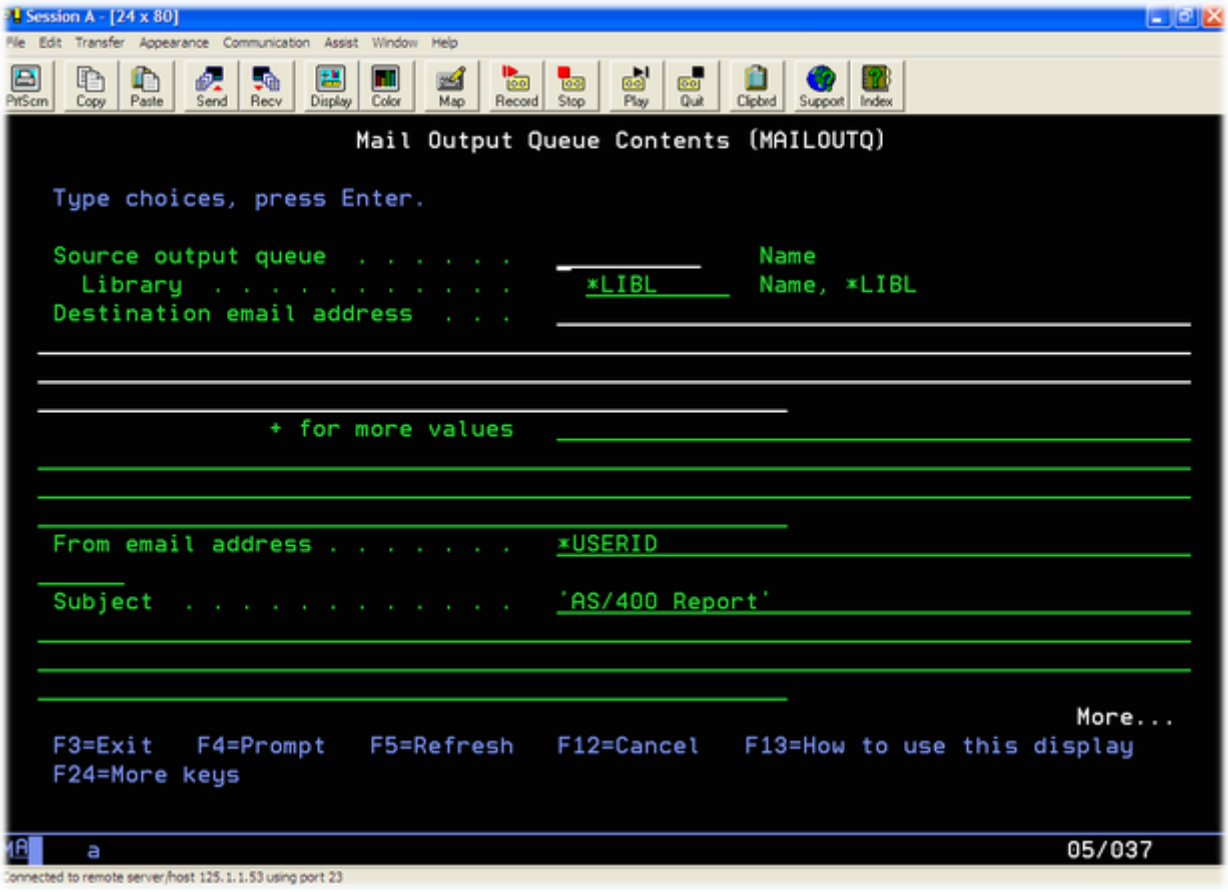
ENDPGM

9.9 MAILOUTQ: Mail Output Queue Contents

This command allows you to specify certain reports or all reports from an output queue to be emailed. All report attachments are combined into one outgoing email.


Session A - [24 x 80]
File Edit Transfer Appearance Communication Assist Window Help
PrtScrn Copy Paste Send Recv Display Color Map Record Stop Play Quit Clipbrd Support Index
Mail Output Queue Contents (MAILOUTQ)
Type choices, press Enter.
Source output queue . . . . . Name
Library . . . . . *LIBL Name, *LIBL
Destination email address . . .
+ for more values
From email address . . . . . *USERID
Subject . . . . . 'AS/400 Report'
More...
F3=Exit F4=Prompt F5=Refresh F12=Cancel F13=How to use this display
F24=More keys
a
05/037
Connected to remote server/host 125.1.1.53 using port 23

Mail Output Queue Contents - MAILOUTQ Command Parameters Screen

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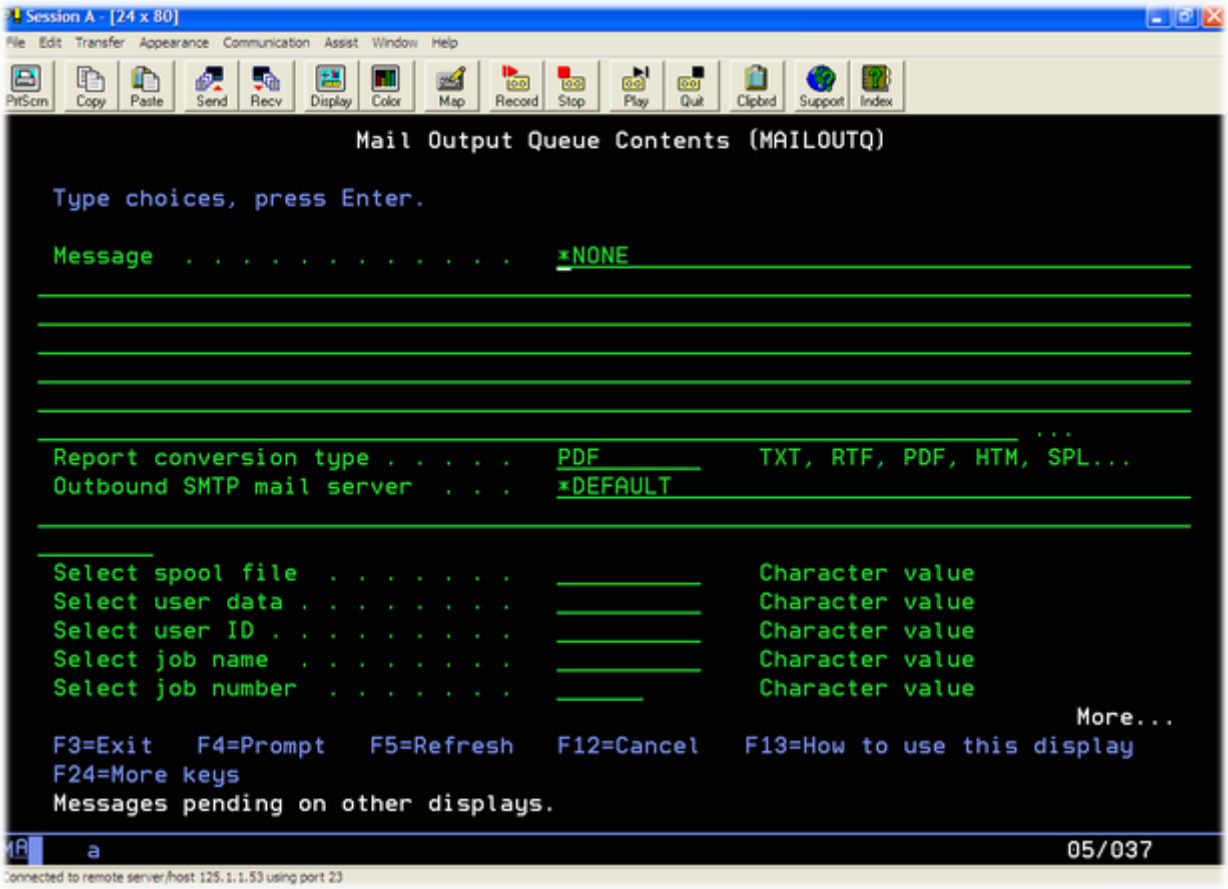
Session A - [24 x 80]
File Edit Transfer Appearance Communication Assist Window Help
PrtScrn Copy Paste Send Recv Display Color Map Record Stop Play Quit Clipbrd Support Index
Mail Output Queue Contents (MAILOUTQ)
Type choices, press Enter.
Message . . . . . *NONE
Report conversion type . . . . . PDF TXT, RTF, PDF, HTM, SPL...
Outbound SMTP mail server . . . *DEFAULT
Select spool file . . . . . Character value
Select user data . . . . . Character value
Select user ID . . . . . Character value
Select job name . . . . . Character value
Select job number . . . . . Character value
More...
F3=Exit F4=Prompt F5=Refresh F12=Cancel F13=How to use this display
F24=More keys
Messages pending on other displays.
a
05/037
Connected to remote server/host 125.1.1.53 using port 23

Mail Output Queue Contents - MAILOUTQ Command Parameters Screen

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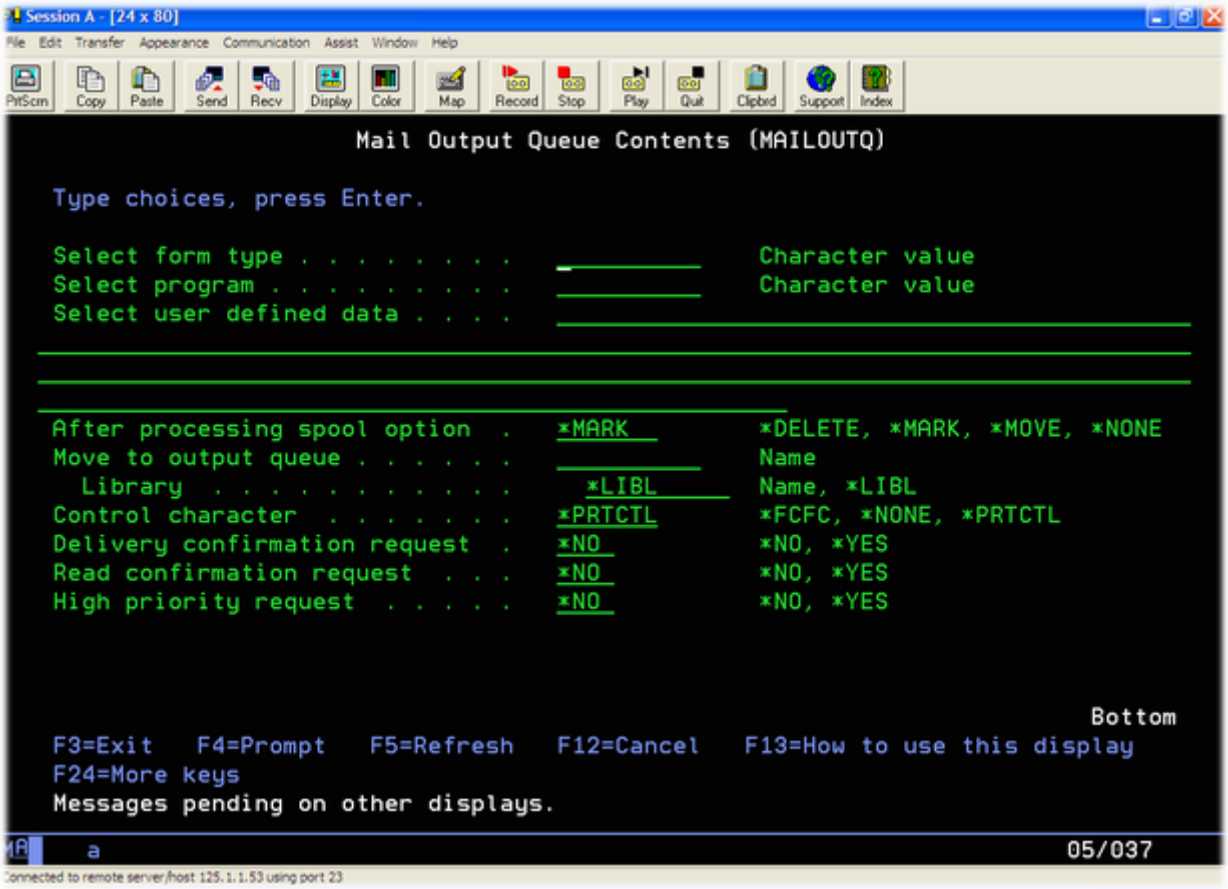
Session A - [24 x 80]
File Edit Transfer Appearance Communication Assist Window Help
PrtScrn Copy Paste Send Recv Display Color Map Record Stop Play Quit Clipbrd Support Index
Mail Output Queue Contents (MAILOUTQ)
Type choices, press Enter.
Select form type . . . . . Character value
Select program . . . . . Character value
Select user defined data . . . .
After processing spool option . *MARK *DELETE, *MARK, *MOVE, *NONE
Move to output queue . . . . . Name
Library . . . . . *LIBL Name, *LIBL
Control character . . . . . *PRTCTL *FCFC, *NONE, *PRTCTL
Delivery confirmation request . *NO *NO, *YES
Read confirmation request . . . *NO *NO, *YES
High priority request . . . . . *NO *NO, *YES
Bottom
F3=Exit F4=Prompt F5=Refresh F12=Cancel F13=How to use this display
F24=More keys
Messages pending on other displays.
MA a 05/037
Connected to remote server/host 125.1.1.53 using port 23

Mail Output Queue Contents - MAILOUTQ Command Parameters Screen

Source Output Queue/Library
Enter the selected output queue and library. This is the output queue that you wish to send multiple report attachments from.

Destination Email Address
Enter the selected destination email addresses. The email addresses MUST be entered in Internet format such as: support@rjssoftware.com.

From Email Address
Enter a return email address for the person sending the email. Make sure to enter a valid Internet email address, otherwise if the email message doesn't get delivered correctly, you will not receive a notification from your email system. The email addresses MUST be entered in Internet format such as: support@rjssoftware.com.

Subject
Enter the email subject line.

Message
Enter a text message to be sent with the selected report. A message up to 5000 characters can be

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included in the message field.

Report Conversion Type
Enter the selected report conversion type: Setting/Converts to

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ADF No longer used.

AFP Raw spool file data is stored in the database attachment. The report data is extracted as is and can be SCS, AFP/IPDS, raw PCL or Postscript created with products such as CreatePrint, EZ Print/400, Formation MG or any other PCL or Postscript based electronic forms software package. SCS or AFP/IPDS reports can be viewed with the Client Access/400 AFP/IPDS viewer. Raw PCL data can be viewed or converted with special converters or can be sent directly to any PCL printer for printing. Contact RJS Software Systems Inc. if you would like to discuss your PCL report viewing and distribution needs.

CSV Report is converted to CSV format with the RJS CSV Report Converter. CSV files can be opened with Excel and other applications that support CSV.

HTM The text report is delivered in HTML Web Browser format.

MSG Report is embedded in the body of the email message. No attachment is sent.

PCL Raw spool file data is stored in the database attachment. The report data is extracted as is and can be SCS, AFP/IPDS, raw PCL or Postscript created with products such as CreatePrint, EZ Print/400, Formation MG or any other PCL or Postscript based electronic forms software package. SCS or AFP/IPDS reports can be viewed with the Client Access/400 AFP/IPDS viewer. Raw PCL data can be viewed or converted with special converters or can be sent directly to any PCL printer for printing. Contact RJS Software Systems Inc. if you would like to discuss your PCL report viewing and distribution needs.

PDF The text report is delivered in Adobe Acrobat PDF format. AFP reports can be sent as PDF if using RJS AFP to PDF Report Converter. PCL reports can be sent as PDF if using RJS PCL to PDF Report Converter. Electronic forms can be sent as PDF if WinSpool/400 Electronic Forms software is used to generate electronic forms with overlays.

PRN The text report is delivered in ASCII Text format with all the line & page breaks intact.

RTF The text report is delivered in MS Word Rich Text format.

SPL The text report is delivered in ASCII Text format with all print control characters intact. The following print control character formats can be used: *FCFC, *PRTCTL or *NONE. This format is usually used if the reports will be viewed with the RJS WinView/400 report viewing software.

TIF Host Print Transform is used to convert AFP/IPDS reports into TIF format. The text or AFPDS report is delivered in Multi-Page TIFF image format. This format can be viewed with the built-in Imaging for Windows software included with Windows 95/98/NT/2000 or any other viewing program that can view Multi-Page TIFF images. This is a perfect way to email AFP/IPDS reports for viewing. AFP/IPDS report layouts may need to be tweaked to work correctly with Host

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Outbound SMTP Mail Server
Enter the Host Name or IP address for the selected SMTP email server.

Select Spool File
Enter the spool file name to select by. If the spool file is selected using this parameter, the selected report will be mailed to the email address identified in the Email Address field.

Select User Data
Enter the user data to select by. If the spool file is selected using this parameter, the selected report will be mailed to the email address identified in the Email Address field.

Select User ID
Enter the user ID to select by. If the spool file is selected using this parameter, the selected report will be mailed to the email address identified in the Email Address field.

Select Job Name
Enter the job name to select by. If the spool file is selected using this parameter, the selected report will be mailed to the email address identified in the Email Address field.

Select Job Number
Enter the job number to select by. If the spool file is selected using this parameter, the selected report will be mailed to the email address identified in the Email Address field.

Select Form Type
Enter the form type to select by. If the spool file is selected using this parameter, the selected report will be mailed to the email address identified in the Email Address field.

Select Program
Enter the program name to select by. If the spool file is selected using this parameter, all reports that match the Select Spool File criteria will be mailed to the email address identified in the Email Address field.

Select User Defined Data
Enter the user defined data to select by. If the spool file is selected using this parameter, all reports that match the Select Spool File criteria will be mailed to the email address identified in the Email Address field.

After Processing Option
What should be done with the report after it's been processed?

*NONE - Does nothing with the original report after it has been emailed
*MARK - Puts a *SENT in the user data field of a report after it has been emailed
*MOVE - Moves the report to an output queue of your choice after it's been emailed.
*DELETE - Deletes the original report after it has been emailed

Print Control Characters
*PRTCTL - (Default) This should normally be used to insure proper report conversion to the HTML, PRN, PDF, RTF and TXT formats.

*NONE - This option will convert the report to a text format without any Print Control Characters. SPL should be used for the Output Data Type when this option is used.

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*FCFC - This option will convert the report to a text format with ANSI Print Control Characters. SPL should be used for the Output Data Type when this option is used. This format is usually used if a report will be sent to a COLD system or to a Microfiche vendor.

Delivery Confirm

Y = This setting is enabled.
N = This setting is disabled.

Read Confirm

Y = This setting is enabled.
N = This setting is disabled.

High Priority

Y = This setting is enabled.
N = This setting is disabled.

9.10 MAILSPLF: Email a Spool File via SMTP

The MAILSPLF command can be used by user applications to manually email reports via the selected SMTP server. This command is also called from the WRKMRPT report selection screen.

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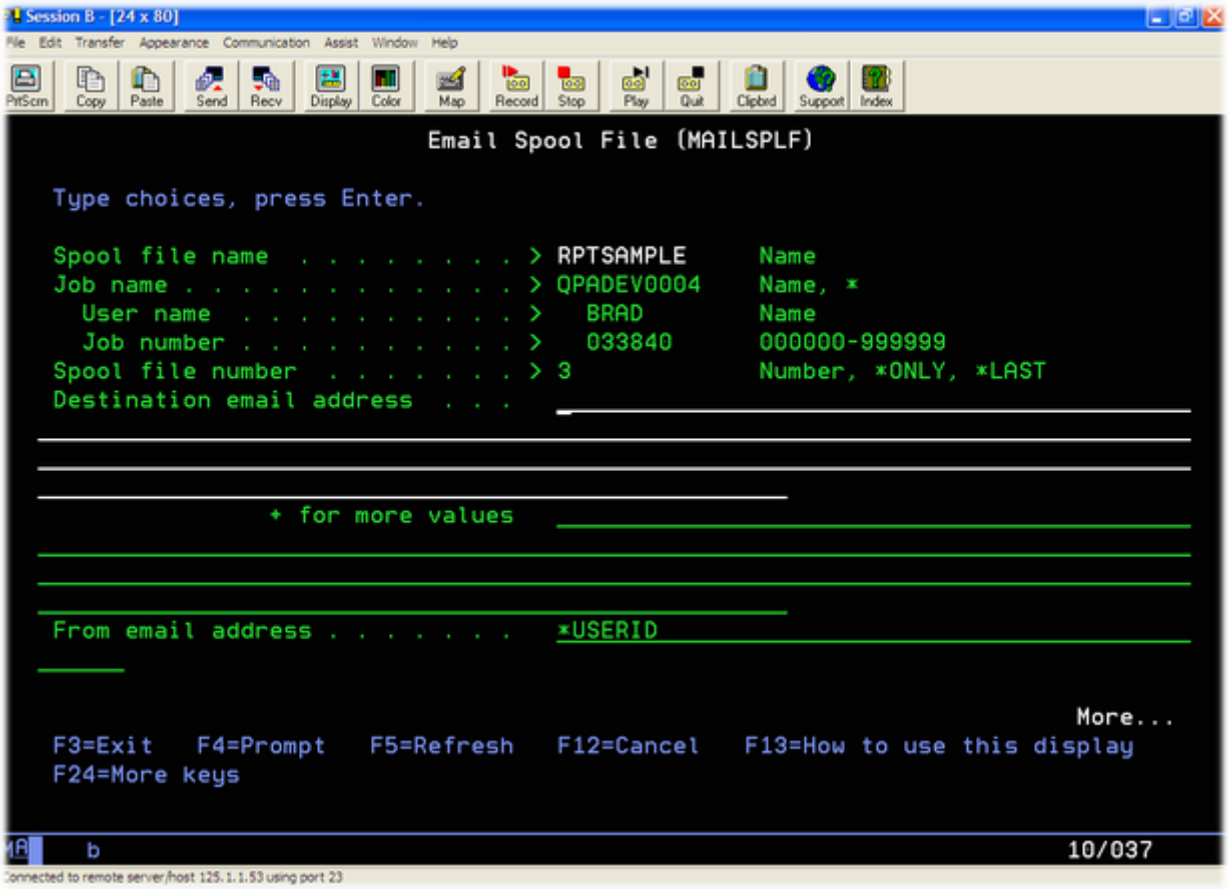
Session B - [24 x 80]
File Edit Transfer Appearance Communication Assist Window Help
PrtScrn Copy Paste Send Recv Display Color Map Record Stop Play Quit Clipbrd Support Index
Email Spool File (MAILSPLF)
Type choices, press Enter.
Spool file name . . . . . > RPTSAMPLE Name
Job name . . . . . > QPADEV0004 Name, *
User name . . . . . > BRAD Name
Job number . . . . . > 033840 000000-999999
Spool file number . . . . . > 3 Number, *ONLY, *LAST
Destination email address . . .
+ for more values
From email address . . . . . *USERID
More...
F3=Exit F4=Prompt F5=Refresh F12=Cancel F13=How to use this display
F24=More keys
MA b 10/037
Connected to remote server/host 125.1.1.53 using port 23

Email Spool File Prompt Screen - Screen 1

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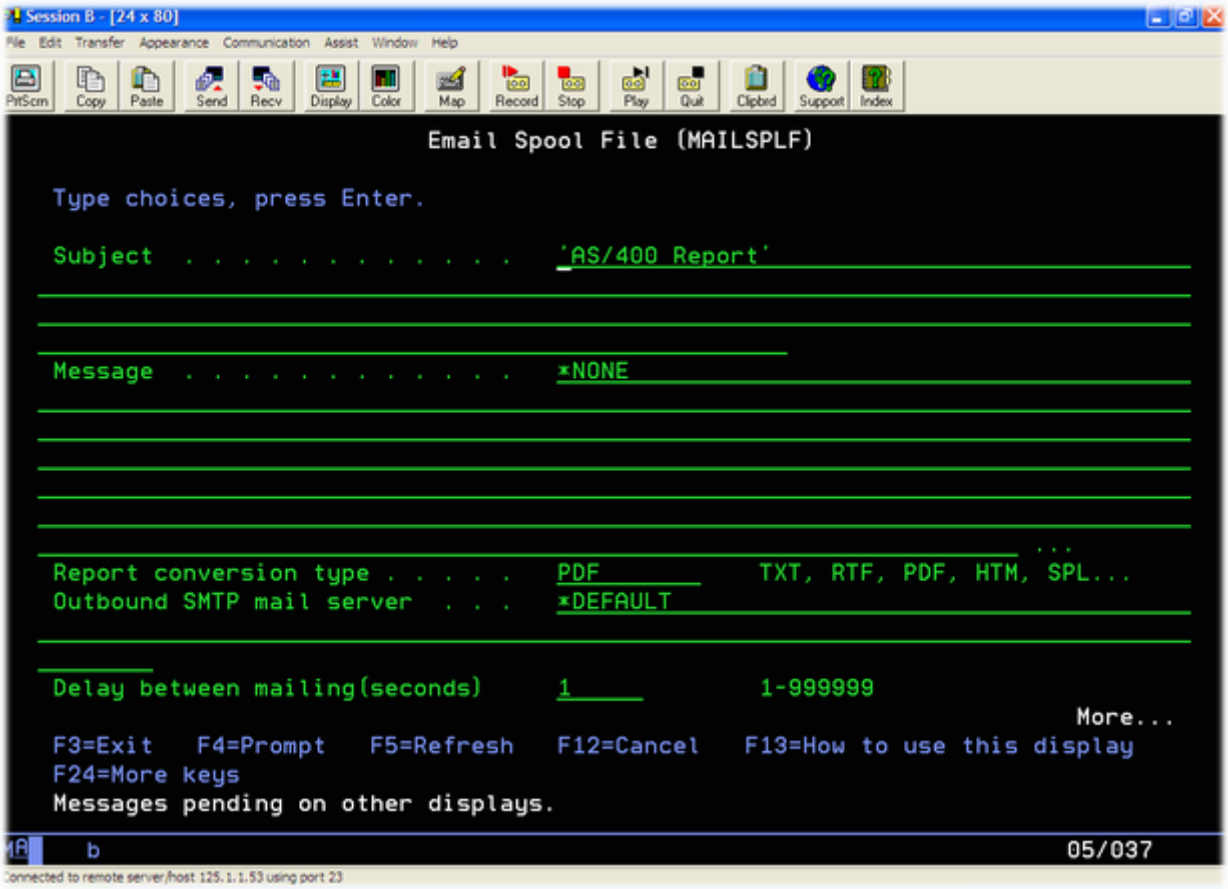
Session B - [24 x 80]
File Edit Transfer Appearance Communication Assist Window Help
PrtScrn Copy Paste Send Recv Display Color Map Record Stop Play Quit Clipbrd Support Index
Email Spool File (MAILSPLF)
Type choices, press Enter.
Subject . . . . . 'AS/400 Report'
Message . . . . . *NONE
Report conversion type . . . . . PDF TXT, RTF, PDF, HTM, SPL...
Outbound SMTP mail server . . . *DEFAULT
Delay between mailing(seconds) 1 1-999999
More...
F3=Exit F4=Prompt F5=Refresh F12=Cancel F13=How to use this display
F24=More keys
Messages pending on other displays.
MA b 05/037
Connected to remote server/host 125.1.1.53 using port 23

Email Spool File Prompt Screen - Screen 2

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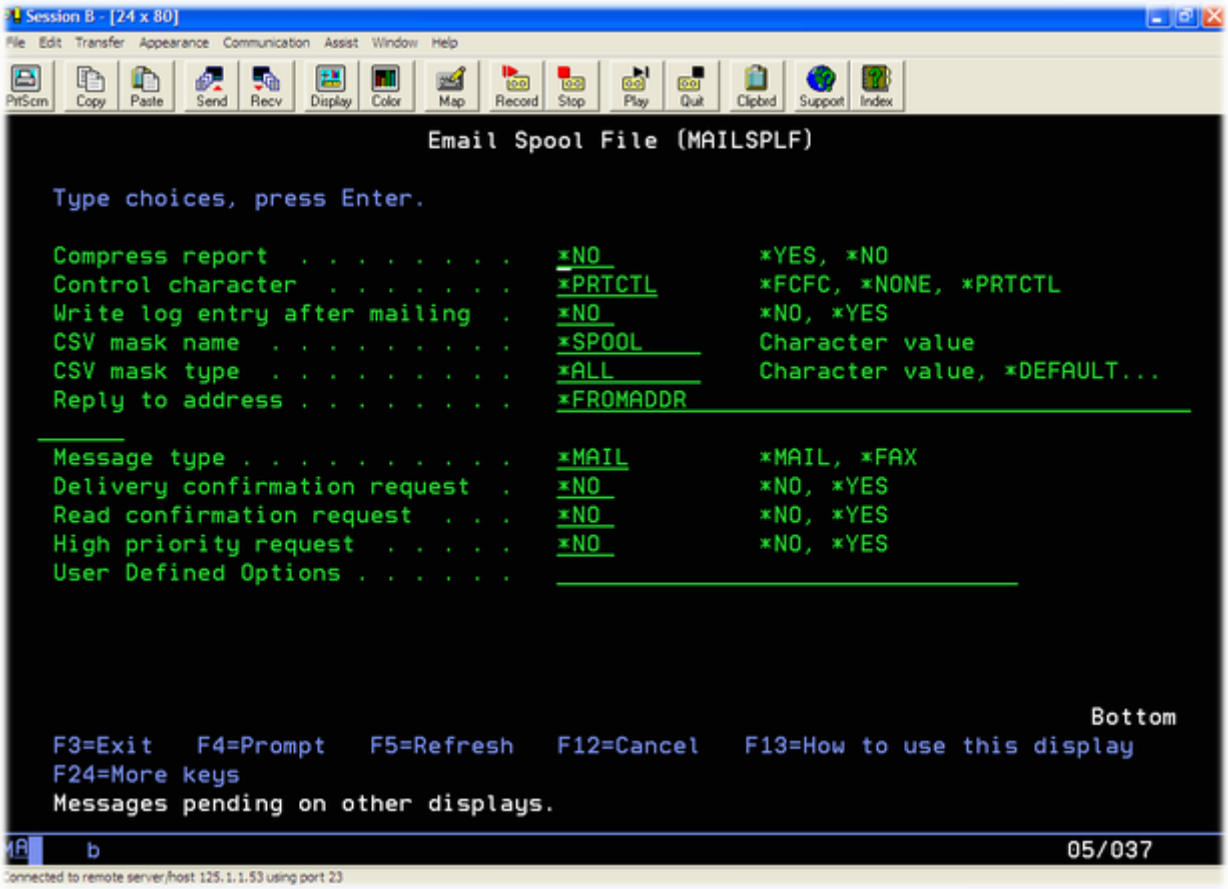
Session B - [24 x 80]
File Edit Transfer Appearance Communication Assist Window Help
PrtScrn Copy Paste Send Recv Display Color Map Record Stop Play Quit Clipbrd Support Index
Email Spool File (MAILSPLF)
Type choices, press Enter.
Compress report . . . . . *NO *YES, *NO
Control character . . . . . *PRTCTL *FCFC, *NONE, *PRTCTL
Write log entry after mailing . *NO *NO, *YES
CSV mask name . . . . . *SPOOL Character value
CSV mask type . . . . . *ALL Character value, *DEFAULT...
Reply to address . . . . . *FROMADDR
Message type . . . . . *MAIL *MAIL, *FAX
Delivery confirmation request . *NO *NO, *YES
Read confirmation request . . . *NO *NO, *YES
High priority request . . . . . *NO *NO, *YES
User Defined Options . . . . . .
Bottom
F3=Exit F4=Prompt F5=Refresh F12=Cancel F13=How to use this display
F24=More keys
Messages pending on other displays.
MA b 05/037
Connected to remote server/host 125.1.1.53 using port 23

Email Spool File Prompt Screen - Screen 3

Mail Spool File Command - MAILSPLFCommand Parameters

Enter the selected AS/400 spool file name. This information can be determined by using the WRKOUTQ command to display a report list.

Job Name/User Name/Job Number
Enter the selected spool file job name, user name and job number. This information can be determined by using the WRKOUTQ command to display a report list.

Spool File Number
Enter the selected spool file number. This information can be determined by using the WRKOUTQ command to display a report list.

Other valid values are *ONLY and *LAST. *ONLY will select the spool file if it's the only spool file in the selected job. *LAST will select the most recent spool file in the selected job.

Destination Email Address

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Enter the selected destination email address. The email addresses MUST be entered in Internet format such as: support@rjssoftware.com.

From Email Address
Enter the selected destination email address. The email addresses MUST be entered in Internet format such as: support@rjssoftware.com

Enter a return email address for the person sending the email. Make sure to enter a valid Internet email address, otherwise if the email message doesn't get delivered correctly, you will not receive a notification from your email system. The email addresses MUST be entered in Internet format such as: support@rjssoftware.com.

Subject
Enter the email subject line.

Message
Enter a text message to be sent with the selected report.

Report Conversion Type
Enter the selected report conversion type: Setting/Converts to

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ADF No longer used.

AFP Raw spool file data is stored in the database attachment. The report data is extracted as is and can be SCS, AFP/IPDS, raw PCL or Postscript created with products such as CreatePrint, EZ Print/400, Formation MG or any other PCL or Postscript based electronic forms software package. SCS or AFP/IPDS reports can be viewed with the Client Access/400 AFP/IPDS viewer. Raw PCL data can be viewed or converted with special converters or can be sent directly to any PCL printer for printing. Contact RJS Software Systems Inc. if you would like to discuss your PCL report viewing and distribution needs.

CSV Report is converted to CSV format with the RJS CSV Report Converter. CSV files can be opened with Excel and other applications that support CSV.

HTM The text report is delivered in HTML Web Browser format.

MSG Report is embedded in the body of the email message. No attachment is sent.

PCL Raw spool file data is stored in the database attachment. The report data is extracted as is and can be SCS, AFP/IPDS, raw PCL or Postscript created with products such as CreatePrint, EZ Print/400, Formation MG or any other PCL or Postscript based electronic forms software package. SCS or AFP/IPDS reports can be viewed with the Client Access/400 AFP/IPDS viewer. Raw PCL data can be viewed or converted with special converters or can be sent directly to any PCL printer for printing. Contact RJS Software Systems Inc. if you would like to discuss your PCL report viewing and distribution needs.

PDF The text report is delivered in Adobe Acrobat PDF format. AFP reports can be sent as PDF if using RJS AFP to PDF Report Converter. PCL reports can be sent as PDF if using RJS PCL to PDF Report Converter. Electronic forms can be sent as PDF if WinSpool/400 Electronic Forms software is used to generate electronic forms with overlays.

PRN The text report is delivered in ASCII Text format with all the line & page breaks intact.

RTF The text report is delivered in MS Word Rich Text format.

SPL The text report is delivered in ASCII Text format with all print control characters intact. The following print control character formats can be used: *FCFC, *PRTCTL or *NONE. This format is usually used if the reports will be viewed with the RJS WinView/400 report viewing software.

TIF Host Print Transform is used to convert AFP/IPDS reports into TIF format. The text or AFPDS report is delivered in Multi-Page TIFF image format. This format can be viewed with the built-in Imaging for Windows software included with Windows 95/98/NT/2000 or any other viewing program that can view Multi-Page TIFF images. This is a perfect way to email AFP/IPDS reports for viewing. AFP/IPDS report layouts may need to be tweaked to work correctly with Host

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Outbound SMTP Mail Server
Enter the Host Name or IP address for the selected SMTP email server.

Delay Between Mailings
This setting is used to increase or decrease the amount of time between emails being sent to the SMTP mail server. This is used help level load how much is being sent to the SMTP mail server.

Compress
This setting is used to compress the size of the attachment before emailing. The attachment is compressed using zip technology.

Y = This setting is enabled.
N = This setting is disabled.

Print Control Characters
*PRTCTL - (Default) This should normally be used to insure proper report conversion to the HTML, PRN, PDF, RTF and TXT formats.

*NONE - This option will convert the report to a text format without any Print Control Characters. SPL should be used for the Output Data Type when this option is used.

*FCFC - This option will convert the report to a text format with ANSI Print Control Characters. SPL should be used for the Output Data Type when this option is used. This format is usually used if a report will be sent to a COLD system or to a Microfiche vendor.

Write log entry after mailing
This setting can be used either for troubleshooting outgoing emails or to keep track of the emails being sent.

*YES = This setting is enabled.
*NO = This setting is disabled.

CSV Mask Name
If using the RJS CSV Report Converter, this parameter helps determine which mask name to use. Masks are used to break up a report into the appropriate columns and records. Mask names are usually based on the spool file name of the report along with a mask type which can be used to assign a mask to use. See CSV mask type for details on the mask type.

Note: If a mask is not found for the report, it will not be processed.

*SPOOL is the default entry, however any mask name can be manually entered.

Note: Masks should usually based on spool file name.

Type

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If using the RJS CSV Report Converter, this parameter helps determine which mask type to use. Masks are used to break up a report into the appropriate columns and records. Mask names are usually based on the spool file name of the report along with a mask type which can be used to assign a mask to use. Hard coded type values can also be used.

Reply To Address
Sets the reply to address. If a user replies to an email this will be the reply to email address.

Message type
This setting is used to let the MAILSPLF command know what type of email is going out. The setting will always be *MAIL for sending a standard email. The only time *FAX will be used is if you are using our Enterprise Fax solution and you are sending a fax and not an email.

Delivery Confirm
If enabled, this setting is used to request that a confirmation email is sent back to the From email address after a report is delivered.

Note: Not all mail servers support this setting, so this setting may not work as expected.

Y = This setting is enabled.
N = This setting is disabled.

Read Confirm
If enabled, this setting is used to request that a confirmation email is sent back to the From email address after a report is opened for viewing by the recipient.

Note: Not all mail servers support this setting, so this setting may not work as expected.

Y = This setting is enabled.
N = This setting is disabled.

High Priority
If enabled, this setting is used to request that an email message is sent with high priority status. When the email arrives in the recipients mailbox, the mail will usually have an exclamation point next to the message to note that the message is high priority.

Note: Not all mail servers support this setting, so this setting may not work as expected.

Y = This setting is enabled.
N = This setting is disabled.

User Defined Options
This option is used to control the Page Orientation, Font Size, and Line Spacing when converting a report to PDF format. This is a 30 character field. The page orientation is

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the first option that goes into the first 10 character spaces. The second option is the font size which starts in the eleventh position. The third option is the line spacing which starts in the twenty first position.

Examples of what the USRDEFOPT attribute of the MAILSPLF command might look like:
USRDEFOPT('*PORTRAIT 12 8')
USRDEFOPT('*LANDSCAPE15 6')

Page Orientation Override:
*PORTRAIT = portrait page orientation
*LANDSCAPE = landscape page orientation

Font Size Override:
Font Size 1-20

Line Space Override suggested values:
80 col portrait = 8
132 col landscape = 7
198 col landscape = 6

****Note:** To use this option the following command must be ran first:
CHGDTAARA DTAARA(RJSERS/QUSRSPLA *ALL) VALUE(1600)

9.11 RJSWRKOUTQ: RJS Work with Output Queue

The RJSWRKOUTQ command can be used to manually select and email reports. This command is handy if users will have a need to manually email reports from the AS/400 without running the Output Queue Monitor. This command can be added to user application menus to allow users to access the interactive emailing functionality of the Email Report Server/400 software.

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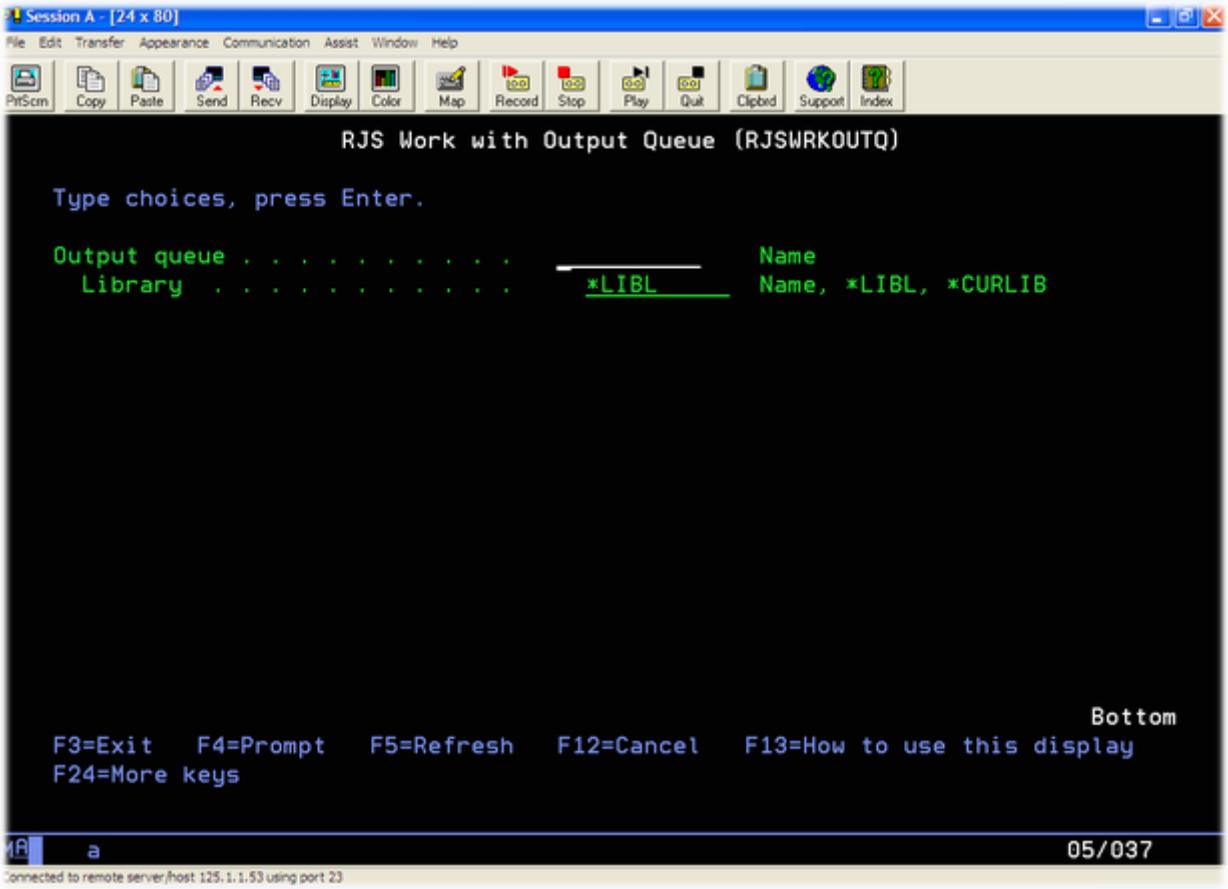
Session A - [24 x 80]
File Edit Transfer Appearance Communication Assist Window Help
PrtScrn Copy Paste Send Recv Display Color Map Record Stop Play Quit Clipbrd Support Index
RJS Work with Output Queue (RJSWRKOUTQ)
Type choices, press Enter.
Output queue . . . . . Name
Library . . . . . *LIBL Name, *LIBL, *CURLIB
Bottom
F3=Exit F4=Prompt F5=Refresh F12=Cancel F13=How to use this display
F24=More keys
a
05/037
Connected to remote server/host 125.1.1.53 using port 23

Work with Email Reports Command Prompt Screen

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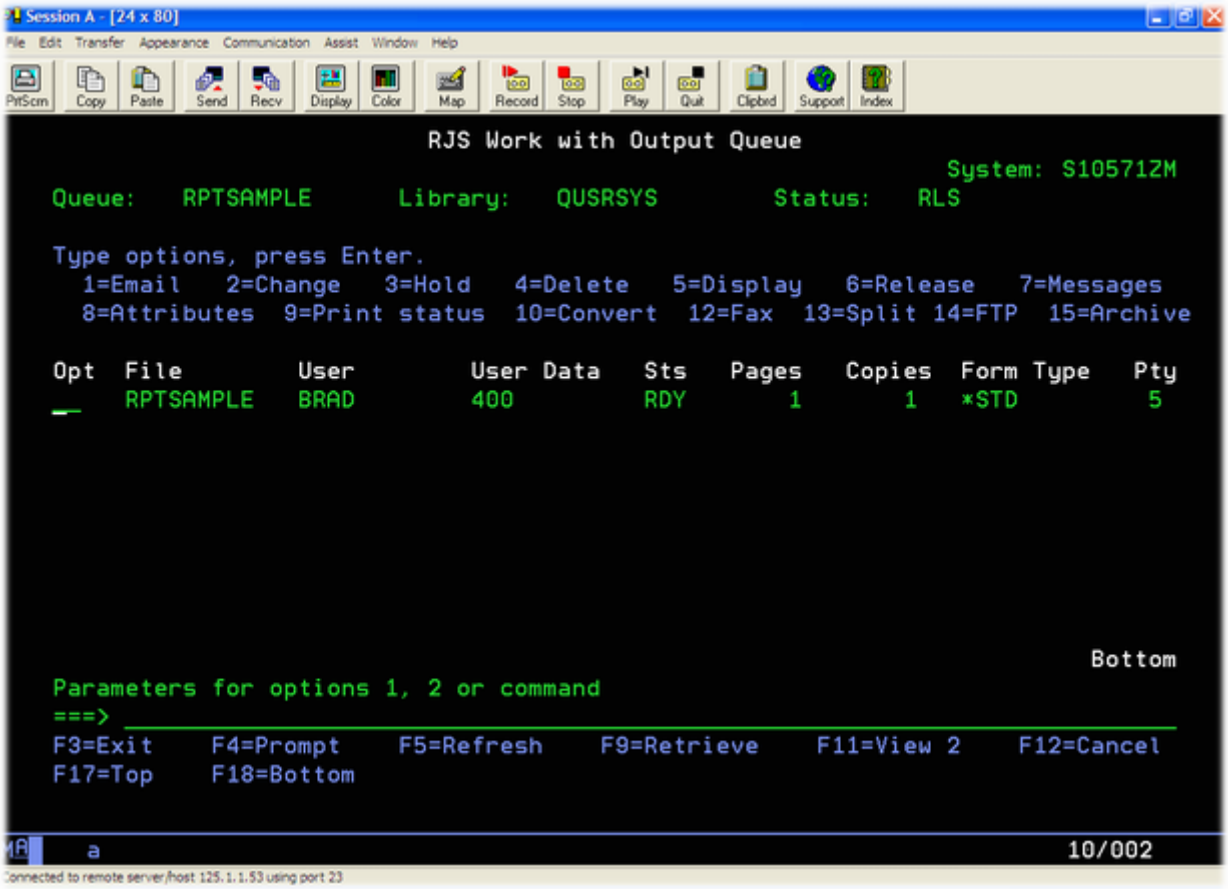
Session A - [24 x 80]
File Edit Transfer Appearance Communication Assist Window Help
PrtScrn Copy Paste Send Recv Display Color Map Record Stop Play Quit Clipbrd Support Index
RJS Work with Output Queue
System: S10571ZM
Queue: RPTSAMPLE Library: QUSRSYS Status: RLS
Type options, press Enter.
1=Email 2=Change 3=Hold 4=Delete 5=Display 6=Release 7=Messages
8=Attributes 9=Print status 10=Convert 12=Fax 13=Split 14=FTP 15=Archive
Opt File User User Data Sts Pages Copies Form Type Pty
RPTSAMPLE BRAD 400 RDY 1 1 *STD 5
Bottom
Parameters for options 1, 2 or command
===>
F3=Exit F4=Prompt F5=Refresh F9=Retrieve F11=View 2 F12=Cancel
F17=Top F18=Bottom
a
10/002
Connected to remote server/host 125.1.1.53 using port 23

Work with Email Reports Selection Screen

RJSWRKOUTQ Command Parameters

Output Queue/Library
Type the selected output queue and library name and press Enter to display the report selection screen.

After the Report Selection Screen is displayed, place an Option 1 next to any report if you want to mail it or Option 5 to display the report. When using Option 1, the MAILSPLF command prompt will be displayed after pressing Enter.

9.12 RJSWRKSPLF: RJS Work with Spooled Files

The RJSWRKSPLF command can be used to manually select and email reports. This command is handy if users will have a need to manually email reports from the AS/400 without running the Output Queue Monitor. This command can be added to user application menus to allow users to access the interactive emailing functionality of the Email Report Server/400 software.

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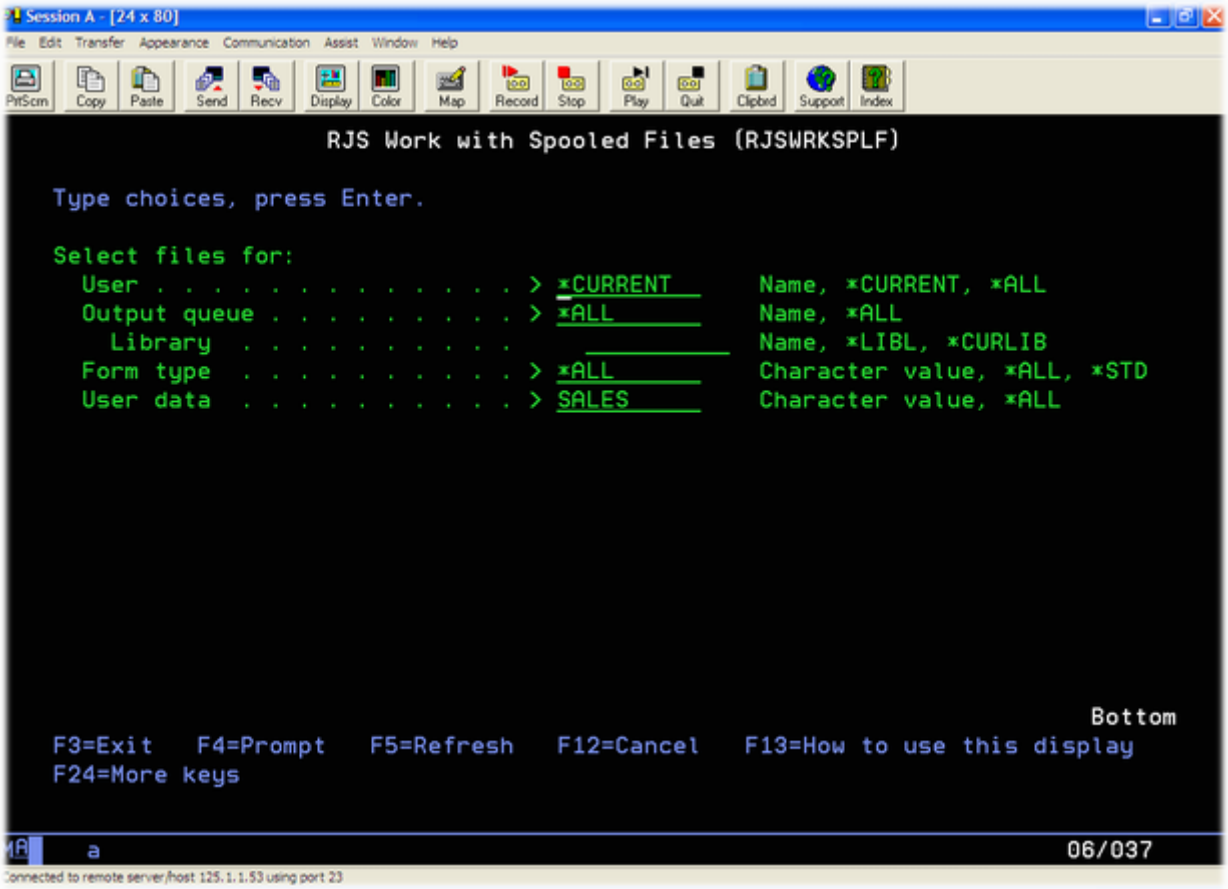
Session A - [24 x 80]
File Edit Transfer Appearance Communication Assist Window Help
PrtScrn Copy Paste Send Recv Display Color Map Record Stop Play Quit Clipbrd Support Index
RJS Work with Spooled Files (RJSWRKSPLF)
Type choices, press Enter.
Select files for:
User . . . . . > *CURRENT Name, *CURRENT, *ALL
Output queue . . . . . > *ALL Name, *ALL
Library . . . . . Name, *LIBL, *CURLIB
Form type . . . . . > *ALL Character value, *ALL, *STD
User data . . . . . > SALES Character value, *ALL
Bottom
F3=Exit F4=Prompt F5=Refresh F12=Cancel F13=How to use this display
F24=More keys
a
06/037
Connected to remote server/host 125.1.1.53 using port 23

RJS Work with Spooled Files Command Prompt Screen

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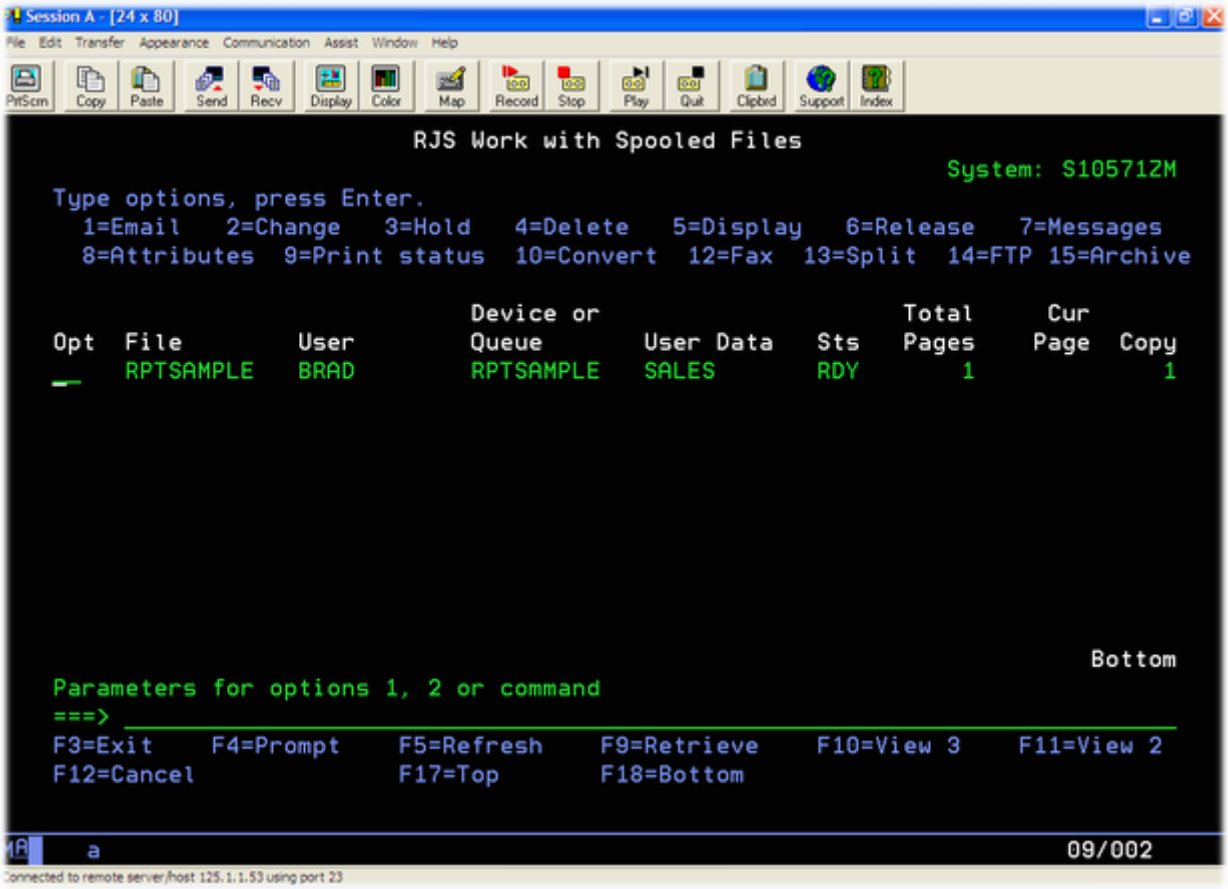
Session A - [24 x 80]
File Edit Transfer Appearance Communication Assist Window Help
PrtScrn Copy Paste Send Recv Display Color Map Record Stop Play Quit Clipbrd Support Index
RJS Work with Spooled Files
System: S10571ZM
Type options, press Enter.
1=Email 2=Change 3=Hold 4=Delete 5=Display 6=Release 7=Messages
8=Attributes 9=Print status 10=Convert 12=Fax 13=Split 14=FTP 15=Archive
Opt File User Device or Queue User Data Sts Total Pages Cur Page Copy
RPTSAMPLE BRAD RPTSAMPLE SALES RDY 1 1
Bottom
Parameters for options 1, 2 or command
===>
F3=Exit F4=Prompt F5=Refresh F9=Retrieve F10=View 3 F11=View 2
F12=Cancel F17=Top F18=Bottom
a
09/002
Connected to remote server/host 125.1.1.53 using port 23

Work with Spooled Files Screen

RJSWRKOUTQ Command Parameters
Use User, Output Queue/Library, Form Type, Userdata to filter the spool files you want to work with.

After the Report Selection Screen is displayed, place an Option 1 next to any report if you want to mail it or Option 5 to display the report. When using Option 1, the MAILSPLF command prompt will be displayed after pressing Enter.

9.13 WRKMRPT: Work with Email Reports

The WRKMRPT command can be used to manually select and email reports. This command is handy if users will have a need to manually email reports from the AS/400 without running the Output Queue Monitor. This command can be added to user application menus to allow users to access the interactive emailing functionality of the Email Report Server/400 software.

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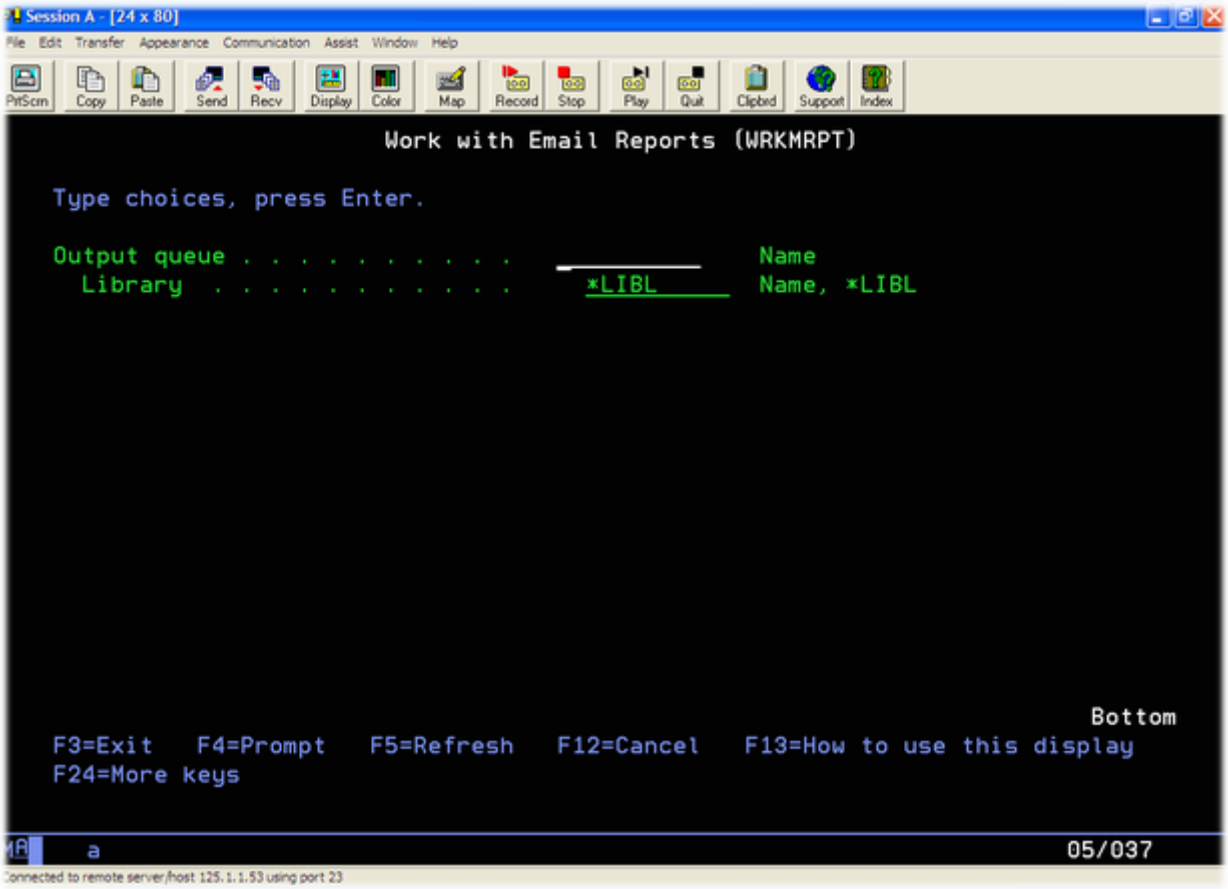
Session A - [24 x 80]
File Edit Transfer Appearance Communication Assist Window Help
PrtScrn Copy Paste Send Recv Display Color Map Record Stop Play Quit Clipbrd Support Index
Work with Email Reports (WRKMRPT)
Type choices, press Enter.
Output queue . . . . . Name
Library . . . . . *LIBL Name, *LIBL
Bottom
F3=Exit F4=Prompt F5=Refresh F12=Cancel F13=How to use this display
F24=More keys
a
05/037
Connected to remote server/host 125.1.1.53 using port 23

Work with Email Reports Command Prompt Screen

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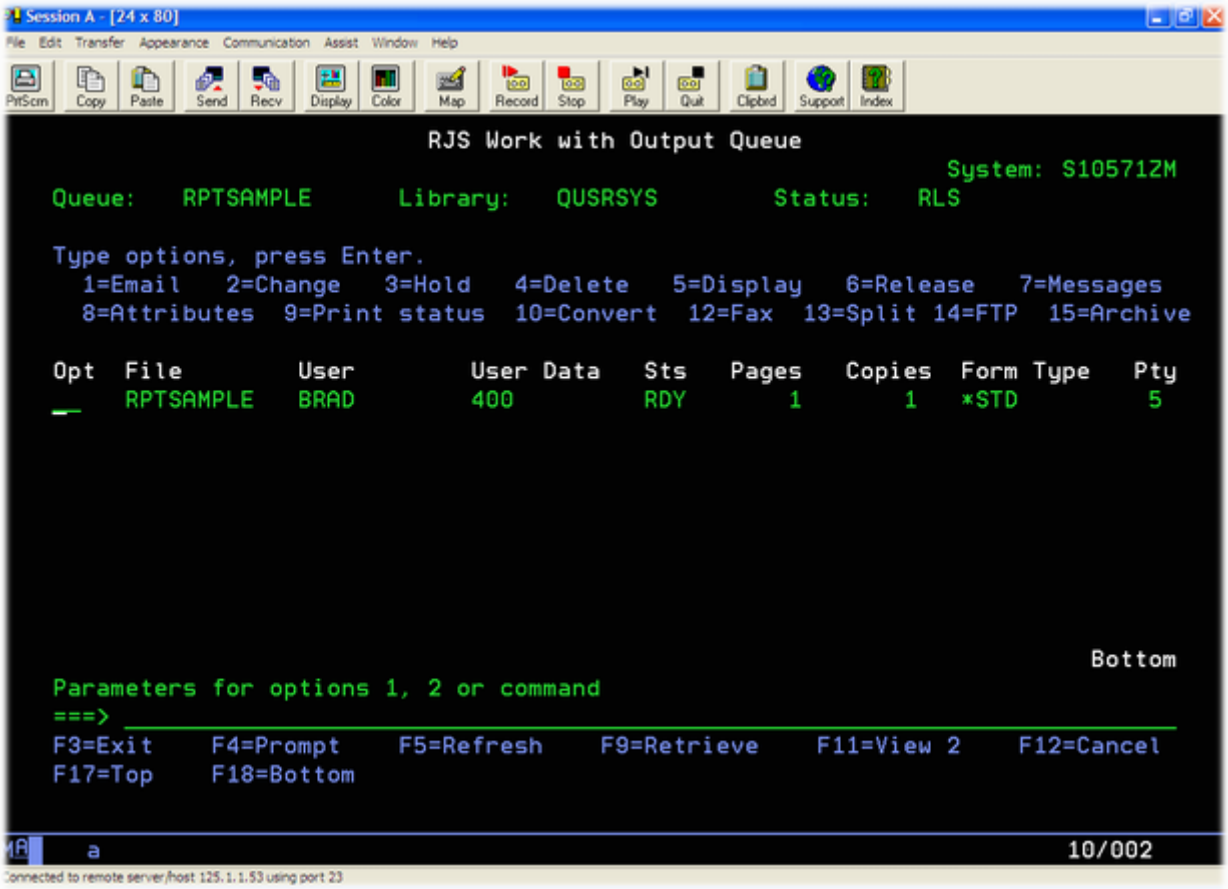
Session A - [24 x 80]
File Edit Transfer Appearance Communication Assist Window Help
PrtScrn Copy Paste Send Recv Display Color Map Record Stop Play Quit Clipbrd Support Index
RJS Work with Output Queue
System: S10571ZM
Queue: RPTSAMPLE Library: QUSRSYS Status: RLS
Type options, press Enter.
1=Email 2=Change 3=Hold 4=Delete 5=Display 6=Release 7=Messages
8=Attributes 9=Print status 10=Convert 12=Fax 13=Split 14=FTP 15=Archive
Opt File User User Data Sts Pages Copies Form Type Pty
RPTSAMPLE BRAD 400 RDY 1 1 *STD 5
Bottom
Parameters for options 1, 2 or command
===>
F3=Exit F4=Prompt F5=Refresh F9=Retrieve F11=View 2 F12=Cancel
F17=Top F18=Bottom
a
10/002
Connected to remote server/host 125.1.1.53 using port 23

Work with Email Reports Selection Screen

WRKMRPT Command Parameters

Output Queue/Library
Type the selected output queue and library name and press Enter to display the report selection screen.

After the Report Selection Screen is displayed, place an Option 1 next to any report if you want to mail it or Option 5 to display the report. When using Option 1, the MAILSPLF command prompt will be displayed after pressing Enter.

10 Problem Handling

10.1 Common Errors

If errors occur while running the SMTP/400 Email API's, always make sure to check the AS/400 job log by using the DSPJOBLOG command from the AS/400 command line. Many times the job log will give some idea as to what is failing.

When using LOCALHOST as the SMTP Server name for any of the AS/400 commands, the AS/400 SMTP Server or Domino for AS/400 SMTP Server must be running.

We have seen a few cases where a user will receive a –0002 error when emailing an AS/400 report

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using the SMTP server IP address for the selected AS/400 report. Use the SMTP Host Name instead. See the Getting Started section for instructions on how to create a Host Table Entry.

10.2 SMTP Command Return Codes

The following return codes from the Native SMTP API commands should give some indication of what the problem might be:

00001 - Unable to create SMTP signal handler. This error can also occur if the native AS/400 report converter cannot open an IFS output file when converting a report. If you have this problem, you either have an IFS security problem or you may need to talk to RJS Software Systems.

00002 - SMTP mail host could not be found. Check to make sure you're using a valid SMTP server host name from the AS/400 host table or your DNS server. Do not use an IP address for the SMTP host name. This problem can also be caused if your SMTP server is not available. If you cannot PING your SMTP server host name, you will need to talk to your network support people to make sure your SMTP server is operational.

00003 - Temporary message input IFS file could not be opened from the IFS. If you have this problem, you will need to talk to RJS Software Systems to determine the cause.

00004 - Temporary message input IFS file was zero bytes. If you have this problem, you will need to talk to RJS Software Systems to determine the cause.

00005 - Unable to open TCP/IP socket. If you have this problem, you will need to talk to RJS Software Systems to determine the cause.

00006 - Unable to connect to SMTP server. Check to make sure you're using a valid SMTP server host name from the AS/400 host table or your DNS server. Do not use an IP address for the SMTP host name. This problem can also be caused if your SMTP server is not available. If you cannot PING your SMTP server host name, you will need to talk to your network support people to make sure your SMTP server is operational.

00007 - Error writing HELO SMTP directive to SMTP server. It's possible you're not connecting to a valid SMTP server. If you have this problem, you will need to talk to your network support people to make sure your SMTP server is operational.

00008 - Error writing MAIL FROM directive to SMTP server. It's possible you're not connecting to a valid SMTP server, this SMTP server does not accept mail relaying or an invalid FROM email address was passed. Email addresses should not be passed with brackets (<>) around them. If you continue to have this problem after checking the FROM email address, you will need to talk to your network support people to determine if mail relaying is allowed for your SMTP server.

00009 - Error writing RCPT TO directive to SMTP server. It's possible you're not connecting to a valid SMTP server, this SMTP server does not accept mail relaying or an invalid TO email address was passed. Email addresses should not be passed with brackets (<>) around them. If you continue to have this problem after checking the TO email address, you will need to talk to your network support people to determine if mail relaying is allowed for your SMTP server.

00010 - Error occurred while writing email message DATA directive to SMTP server. You may have been abnormally disconnected from your SMTP server while sending an email message or you are not allowed to send email to this SMTP server. Try disconnecting and sending the email message again.

00011 - Error occurred while writing email message data to SMTP server. You may have been abnormally disconnected from your SMTP server while sending an email message or you are not allowed to send email to this SMTP server. Try disconnecting and sending the email message again.

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00012 - Error occurred while writing end of email message data (.) directive to SMTP server. You may have been abnormally disconnected from your SMTP server while sending an email message or you are not allowed to send email to this SMTP server. Try disconnecting and sending the email message again.

00013 - Error occurred while writing email message QUIT directive to SMTP server. You may have been abnormally disconnected from your SMTP server while sending an email message or you are not allowed to send email to this SMTP server. Try disconnecting and sending the email message again.

00017 - Invalid response (not a 250) was received from your SMTP server after sending the HELO SMTP directive. It's possible you're not connecting to a valid SMTP server. If you have this problem, you will need to talk to your network support people to make sure your SMTP server is operational or RJS Software Systems to determine the cause.

00018 - Invalid response (not a 250) was received from your SMTP server after sending the MAIL FROM directive. It's possible you're not connecting to a valid SMTP server, this SMTP server does not accept mail relaying or an invalid FROM email address was passed. If you continue to have this problem after checking the FROM email address, you will need to talk to your network support people to determine if mail relaying is allowed for your SMTP server.

00019 - Invalid response (not a 250) was received from your SMTP server after sending the RCPT TO directive. It's possible you're not connecting to a valid SMTP server, this SMTP server does not accept mail relaying or an invalid TO email address was passed. If you continue to have this problem after checking the TO email address, you will need to talk to your network support people to determine if mail relaying is allowed for your SMTP server.

00020 - Message was not accepted for delivery by the SMTP server. You may have been abnormally disconnected from your SMTP server while sending an email message or you are not allowed to send email to this SMTP server. Try disconnecting and sending the email message again.

00021 - Authentication error when logging into SMTP server for authenticated SMTP. You may have been abnormally disconnected from your SMTP server while sending an email message or you are not allowed to send email to this SMTP server using SMTP authentication. Typically MS Exchange is the mail server being used if this error occurs.

00022 - Invalid response (not a 334) was received from your SMTP server after sending the AUTH LOGIN directive. It's possible you're not connecting to a valid SMTP server or this SMTP server does not accept authenticated connections. If you continue to have this problem, you will need to talk to your network support people to determine if authenticated SMTP is supported on your mail server. Typically MS Exchange is the mail server being used if this error occurs.

00023 - Authentication error when logging into SMTP server for authenticated SMTP. You may have been abnormally disconnected from your SMTP server while sending an email message or you are not allowed to send email to this SMTP server using SMTP authentication. Typically MS Exchange is the mail server being used if this error occurs.

00024 - Invalid response (not a 334) was received from your SMTP server after sending the USERID to the mail server. It's possible you're not connecting to a valid SMTP server or this SMTP server does not accept authenticated connections. Your SMTP user ID and password may also not be entered correctly. If you continue to have this problem, you will need to talk to your network support people to determine if authenticated SMTP is supported on your mail server. Typically MS Exchange is the mail server being used if this error occurs.

00025 - Authentication error when logging into SMTP server for authenticated SMTP. You may have been abnormally disconnected from your SMTP server while sending an email message or you are not allowed to send email to this SMTP server using SMTP authentication. Typically MS Exchange is the mail server being used if this error occurs.

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00026 - Invalid response (not a 235) was received from your SMTP server after sending the PASSWORD to the mail server. It's possible you're not connecting to a valid SMTP server or this SMTP server does not accept authenticated connections. Your SMTP user ID and password may also not be entered correctly. If you continue to have this problem, you will need to talk to your network support people to determine if authenticated SMTP is supported on your mail server. Typically MS Exchange is the mail server being used if this error occurs.

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10.3 Sending SMTP Message via Telnet

The following steps can be used from the AS/400 to test to see if a SMTP email server can correctly send email messages. This is the best way to troubleshoot whether you can connect and send message via your SMTP mail server.

Usually the problem will turn out to be that the SMTP server is not set up to accept mail relaying. (Email passed from one SMTP server to another) When running the SMTP commands listed below you will receive an error response message if mail relaying is not allowed.

1.) Type the following command from the AS/400 command line. This will connect you to your SMTP mail server so that you can manually send a mail message:

TELNET RMTSYS(RJS) PORT(25)

Note: In this sample we used a host name of RJS. You should use the host name for your SMTP mail server.

After typing the TELNET command and pressing Enter, you should see a 220 message similar to the following message if you get connected to your SMTP server:

220 RJSSOFT.COM ESMTP Service

2.) Type the following commands individually and press Enter after each one. This will send a one line email message that says: "TEST EMAIL".

Note: Where we used support@rjssoft.com, you sould use your own Internet email address.

HELO support@rjssoft.com (Note: With the AS/400, sometimes the HELO command has to be typed 2-3 times. Odd but it works.)

MAIL FROM: support@rjssoft.com (This option tells the SMTP server who is sending the email message.)

RCPT TO: support@rjssoft.com (This option tells the SMTP server who the email recipient will be.)

DATA (This option tells the SMTP server we're about to send data)

TEST EMAIL (This will send a single line of text.)

. (Yes this is a period. After pressing Enter, your message should be sent)

QUIT (This option closes the SMTP session)

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10.4 Other Errors

If you cannot resolve the problem you're experiencing by using the previous troubleshooting methods, you should contact RJS Software Systems for advice on solving the problems you're experiencing.

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